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THE NATIONAL PROVISIONER

PUBLISHED WEEKLY

Ch. Organ of the Meat and Provision Industries of the U. S.

Vol. XXV

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No.

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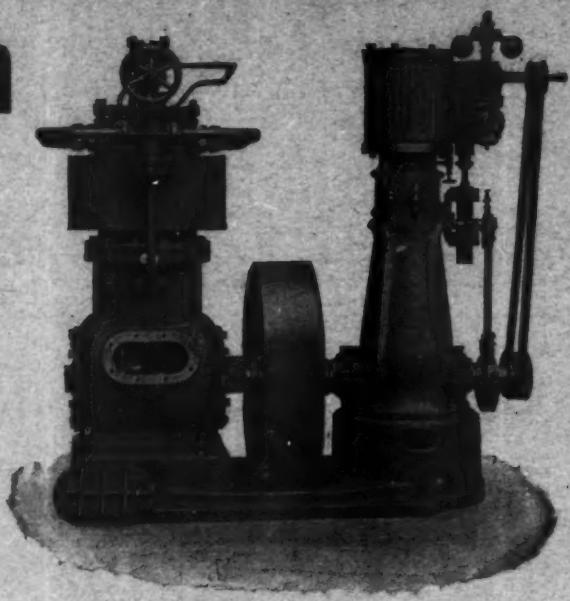
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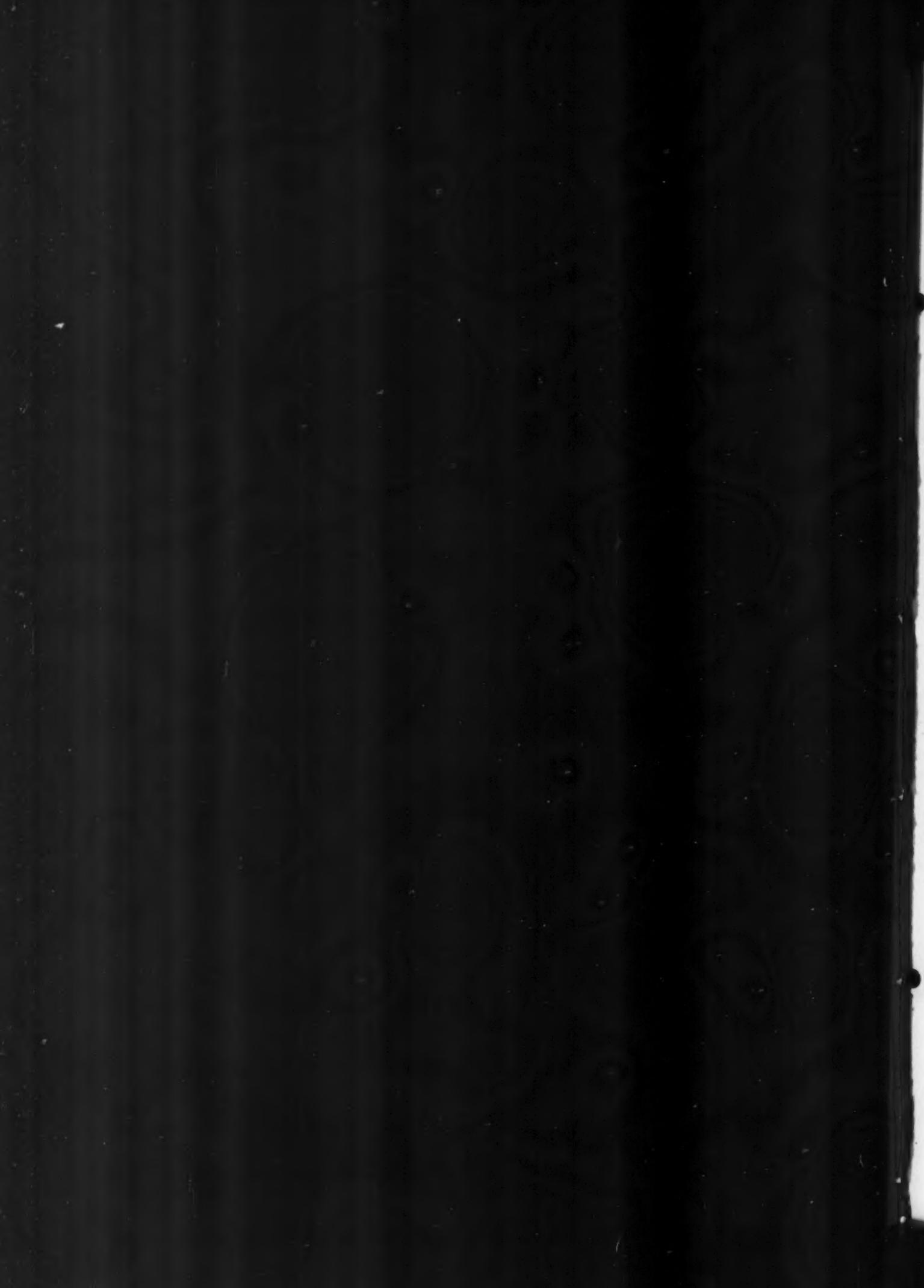
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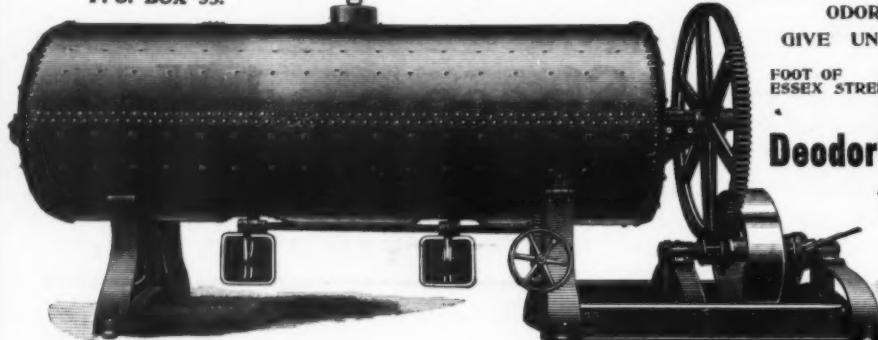
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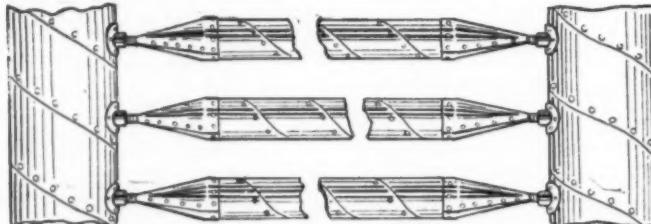
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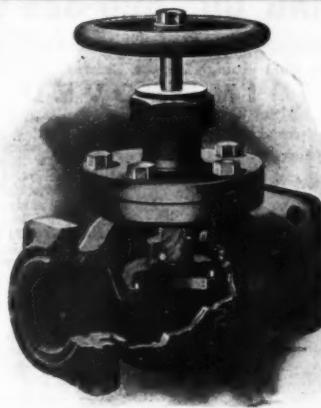
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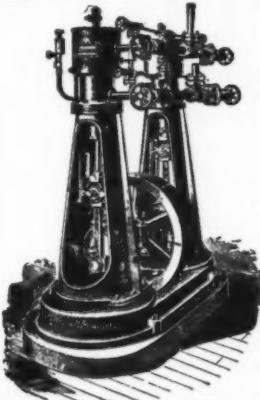
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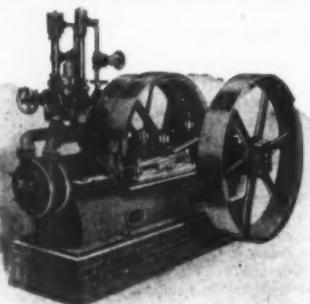
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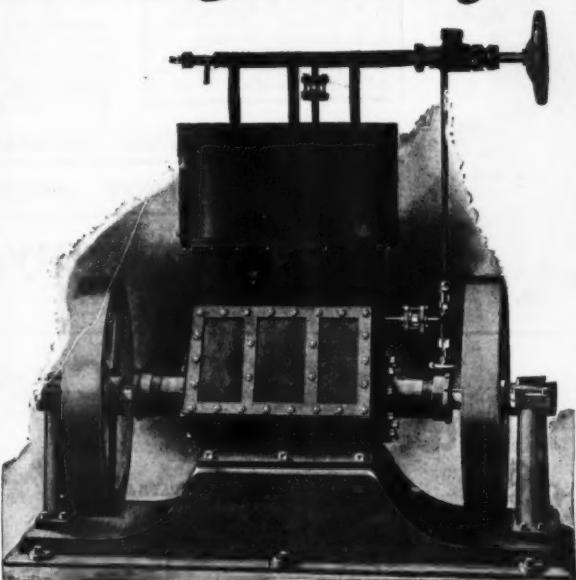
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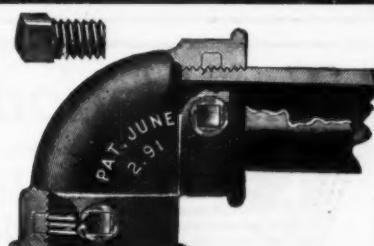
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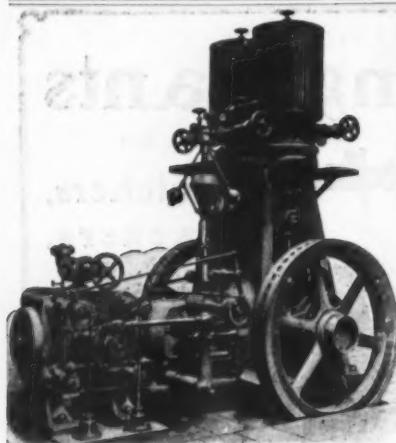
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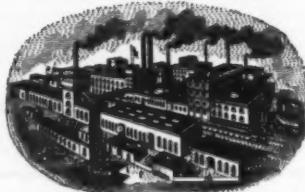
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THE FEARFUL TRUTH

The German scientists have very recently used some Guinea pigs as a key with which to unlock a bacillus puzzle. The experiments show that hogs fed with milk of peasant cows are more dangerously affected with the deadly bacilli than are the swine.

The experiments show more, viz: that the hogs and cattle owned by the peasants make up the vast majority of the German cattle and swine herds, and that these peasant live stock are fearfully infected with the germs of disease—being raised and fed under the most filthy surroundings, and with the maximum of uncleanly and infected food.

Not only have these unpleasant things been found, but doctors found, also, that the butter made by the peasants from their home fed cattle contained virulent consumption germs to an alarming extent. Guinea pigs fed on some of the samples of butter tested, died from peritonitis, while the lungs of others were full of the bacilli of tuberculosis.

A German paper, commenting upon the above says: "This test should set at rest any doubt as to the possibility of danger arising from butter which is sold in our shops without the slightest knowledge of where it was made, or under what conditions."

This influential journal might have added, with equal truth: "And the flesh of hogs fed upon the milk from such cattle and the beef flesh which is got by the slaughter of cattle grown from the calves of such diseased cows is a distinct menace to the health of the German people."

In the face of all of the many exposures which German men of science make of the tuberculous and trichinous condition of the beef and the swine herds of the fatherland, we are astonished at the attacks which certain Germans make upon our clean and wholesome food products.

Nor will our friends over there look at

their own sins and apologize to us for the sayings and doings of the past months.

The great bulk of the cattle and hogs of Germany, upon the showing of their own doctors, should be in the veterinary hospitals getting their lungs and organs healed.

By the way, not one of the pigs which were fed on oleomargarine even got sick.

This little reflection about oleomargarine is intended for our own Mr. Grout and a few others of his ilk.

POLITICS IN PURE FOOD

The average food commissioner, like the average other commissioner appointed by a party leader, is not appointed so much because of his qualification for the office, but because of his or some one else's service to his political party, as well as the future service which he and his friends are able to render that party at the next election.

The average state or local food inspector is nothing more nor less than the embodiment of certain political elements and conditions which it must look after. He is, therefore, more interested in looking after his friends' political fences than he is in the public health and its food. In action he punishes his enemies and helps his friends; he sees every good or evil thing from a purely party and vote making standpoint; he grants favors to his adherents, and makes it hot for his political foes. He is neither more or less than a political blackmailer masquerading under an official title as a public officer. The food inspector above noted is the same regardless of the political party with which he is affiliated. You see him at the same kind of game whatever his political faith.

The fact that a barber or tanner may, in a day, bud forth into an important and chesty food inspector is just as efficient an appointment as that of a food expert, because neither is allowed to unduly interfere with certain trades and their products; neither will be allowed to get right

down to the actual subject of pure foods regardless of the effect upon the adherents of his own political party.

The intrusion of politics into the food and health fields has made the appointment of state and local food inspectors, etc., a mere business farce. It is only an excuse for paying campaign debts.

A FEW REFLECTIONS

The provincial British are a bit slow, but they, like all other experience hunters, finally buy their experience at the usual price.

It has, for generations, been the practice of British livestockmen to buy cattle by the head and to buy "store beefs" by guess weight. The rural American used to sell his steers that way also, but he learned his lesson.

The provincial Britisher, after being "soaked" on the guessing plan, has now begun to weigh his live cattle and, in doing so, is gradually waking up to the fact that he has, therefore, been selling more beef than he got paid for.

Every steer is measured into the abattoirs at Chicago over the Union Stock Yard's scales.

The English farmer shows a resignation over his agricultural misfortunes which deserves a better fate. One is inclined to think that John Bull would long since have established a family of royal agricultural colleges and imperial experiment stations among the other "royal" institutions now in existence in that country. Uncle Sam long ago found that these paid.

FRANCE'S NEW TARIFF MOVE

A French decree has been issued authorizing the application of the minimum tariff, until February of next year, upon all produce from the United States and its colonies, from the colonies of Germany, Great Britain, Denmark, Spain and the Netherlands, and from many Asiatic and South American countries. France is out hunting for those raw products which will help her manufacturing interests without cramping her own productive strength.

If France will at once acknowledge the excellent edible value of cottonseed oil, and buy it from us—being her best market—she will not only spring new industries into existence, but will give greater life to those now there. The sardine interest of France would, by using specially prepared cotton oil, get on a better competitive basis. France is gradually waking up to this among other industrial truths.

Cotton seed cannot be treated as economically in France as here. There is a loss in shipping the seed and other drawbacks. France gives us the hint in telling us that the home trade must cultivate new and developing commerce.

THE BEAR GROWLS

Russia is feeling around for Uncle Sam's solar plexus. Russia must be getting a strongish backbone if she deserves to waste energies in feeling how she can stand a tariff war.

Some of these days Russia may have a lively scrap on with Germany, England, or some other shield without a bear on it. If we should then test the bear's ability to fight on an empty stomach, the end of war might come sooner than St. Petersburg would care to admit it. However, if we shut our custom house to Russia's sugar, or make it climb over higher bars to get in, the Czar has a right to play some sort of custom house game, and a tariff bluff seems to be the one always selected.

The whole thing is inclined to prove a boomerang. Political brokerage of a kind seems to be getting us into all sorts of foreign and domestic trade complications. We are doing able steering now and must continue our careful way.

SOME MORE GROUT BILL PURE FOOD

The National Dairy Union—which, by the way, is a very large name for a few interested dairy produce agitators, and politicians—will, doubtless, be shocked to hear that "the outbreak of typhoid fever has been traced by the health authorities to the milk of a condensed milk factory, which serves the vicinity with a daily supply of bottled milk." The quotation is from the local report.

Of course, from a Grout bill standpoint, this milk supply—which is typical of many others—is pure, healthful, nourishing food, and the butter from such a supply is "food for the Gods." Just think it over.

TREASURY DECISIONS

The U. S. Treasury Department has decided that:

A promise in a treaty that the products of one country shall not be subjected to a higher rate of duty than like products imported into the United States from other countries, addresses itself to the political and not to the judicial department of the Government, and the courts can not try the question whether it has been observed or not.

Sheltered spaces on upper deck for transportation of cattle and deck cargo from measurement and tonnage tax, is exempted.

WILL NOT ENFORCE THE OLEO LAW

Reports from Harrisburg, Pa., say that the Pennsylvania Dairy and Food Bureau will not enforce the Snyder anti-oleomargarine law, pending the result of test cases, in which it is claimed the law is unconstitutional.

The new act says that oleo "shall be kept free from all coloration or ingredients causing it to look like yellow butter." The law does not define yellow butter. The Dairy and Food Bureau will not fix a standard, on the ground that this is a matter for the courts to decide.

Commissioner Cope was asked to define yellow butter.

"That is entirely a matter for the judges and juries of the State," he replied. "I will not undertake to give a definition. So far none of the prosecutions brought under the new act have been tried.

"It is very slow work to get any of our cases tried in the city, but we will probably get a decision in some of the country courts. I suppose the matter will not be definitely settled until the Supreme Court has fixed a standard."

CHICAGO'S RECEIPTS TUESDAY

When the last stock train pulled into the stockyards Tuesday all records except one in the history of the yards had been broken, and the bulletin board at the main gate showed that 2,214 cars of live stock had been delivered in the yards, making 38,000 hogs, 29,000 cattle and 25,000 sheep. The only time on which this record was broken was July 30, 1894, when 2,364 carloads were received.

The receipts on Tuesday were really the legitimate record, as those of July 30, 1894, were caused by outside conditions. It was on this day that the great railroad strike was ended and cars of cattle which were side-tracked for several days were rushed into the Chicago yards. The receipts on Tuesday were affected by extraordinary conditions, but there were the result of natural causes.

RAIN SAVES CROPS

General rains throughout the drought-stricken region, particularly in Kansas and Missouri, on Wednesday night, came in the nick of time. Early in the week there were indications that the growing corn in the Western States would be almost totally destroyed by the heat and predictions were made that cattle prices would rise accordingly. The rain on Wednesday night, however, saved at least half the crop, according to experts, and gave a more encouraging aspect to the situation. The situation is not entirely relieved, however; still more rain is needed, the markets are nervous and there has been some advance in prices with poor cattle offered.

RECIPROCITY WITH CANADA

At a meeting of the Board of Directors of the Merchants' Association, of New York, resolutions were passed urging the President and Congress to take immediate and effective steps that will result in the consummation of a mutually advantageous reciprocal trade agreement between the United States and Canada.

BORAX AND THE HUMAN SYSTEM

BY F. W. TUNNICLIFFE, M.D. M.R.C.P.,

Professor of *Materia Medica and Pharmacology*, in King's College, London;

AND OTTO ROSENHEIM, Ph.D., F.C.S.

(Continued from July 13.)

The child was a healthy boy, aged 5 years, weighing 18.5 kilos, and remained in good health during the whole observation. He consumed daily 250 g. of bread, 600 c.c. of milk, 20 g. of butter, 50 g. of meat, 50 g. of apple compote, 10 g. of sugar, 50 c.c. of water, and 5 g. of toffee. The whole observation lasted for twenty-two days. The fore period in this case lasted for 5 days, otherwise the arrangement and quantity of boric acid and borax given were the same as in Observation I. These substances were administered as shown in the following table:

Boric Acid Period.

3 days: 0.5 g. per diem = 1 in 1000 Milk, 1 in 2000 total Food and Drink.
3 days: 0.08 g. per diem = 1 in 700 Milk, 1 in 1500 total Food and Drink.
1 day: 1.0 g. per diem = 1 in 500 Milk, 1 in 1000 total Food and Drink.

Borax Period.

5 days: 1.5 g. per diem = 1 in 330 Milk, 1 in 600 total Food and Drink.

It may be noted here that the maximal medicinal dose for this child is in the case of boric acid 0.29 g., of borax 0.38 g., and that the quantities given, as in the last observation, are greatly in excess of those which would be required as a food preservative.

Adopting the same method as in the previous observation we arrive at the following results:

Nitrogen Metabolism.

Nitrogen in Food	8.64	7.77	7.75	7.55
" Urine	6.46	6.61	6.35	6.39
" Faeces	1.01	0.69	0.95	0.32
Balance	+1.17	+0.47	+0.45	+0.54
Assimilation per cent.....	88.31	91.12	87.74	88.28
Nitrogen per cent. in dry Faeces.....	6.7	6.1	6.9	6.9

From these figures it will be seen that the nitrogen metabolism under went no change. The assimilation of the nitrogenous food was improved during the boric acid period, and practically not affected during the borax period. The tendency of the body to reach equilibrium is clearly seen in the balance figures. The variation of the nitrogen in the urine during the respective periods is very small, but may be regarded as pointing to a slight stimulation of proteid katabolism during the boric acid period, and the reverse during the borax period.

The body weight increased during the boric acid and borax periods.

Phosphorus Metabolism.

Phosphorus in Food.....	0.87	0.96	0.97	0.96
" Urine	0.4970	0.5378	0.5584	0.5247
" Faeces	0.4180	0.2574	0.3876	0.3124
Balance	-0.04	+0.17	+0.02	+0.13
Assimilation per cent.....	51.72	73.30	60.04	67.46
Phosphorus per cent. in dry Faeces.....	2.9	2.3	2.8	2.3

From the above figures it will be seen that these drugs did not affect the phosphorus metabolism, but that the assimilation of phosphorus was rather improved by them, especially by boric acid. Taking into consideration the fact that the phosphorus in the food was increased during the drug periods, the slight increase of phosphorus in the urine cannot be regarded as pointing to an increased phosphorus katabolism.

From the figures in this table it will be

The results relevant to the observations made above are summarized in the following table:

Table III. a.

	Nitrogen assimilation, %	% N. of dry faeces	Phosphorus assimilation, %	% P. of dry faeces	Fat assimilation, %	% Fat of dry faeces	A* B	N† S ₂
Fore period	88.31	6.7	51.72	2.3	95.47	14.7	17.5	5.5
Boric acid period	91.12	6.1	73.30	2.8	93.66	19.0	13.7	5.3
Borax period	87.74	6.9	60.04	2.3	93.57	23.3	15.0	5.3
After period	88.28	6.9	67.46	2.9	93.19	17.2	15.2	5.1

* As in Table IIa.

† As in Table IIa.

(To be continued.)

River Plate Report

The report of the River Plate Fresh Meat Company for the twelve months ended April 30, shows after providing for depreciation and commission, a profit on trading of £73,078, making, with the balance brought forward, £75,041. Debenture

	Fat Assimilation.			
Fat in Food	37.59	40.54	40.87	43.30
" Faeces	2.56	2.61	2.59	1.96
Balance	+35.03	+37.93	+38.27	+41.33
Assimilation per cent.....	93.19	93.57	93.66	95.47
Fat in dry Faeces per cent.....	17.2	23.3	19.0	14.7

seen that the same remarks apply as in Observation I., viz., that boric acid and borax exerted no influence upon fat assimilation.

The remaining points to be considered may, as in the preceding observation, be divided as follows:

The quantity of urine was decidedly diminished during the borax period, to a less extent during the boric acid period. The specific gravity increased with the diminishing volume. The reaction of the urine kept constantly acid to litmus during both the boric acid and borax period. In the fore period it varied between amphoteric and acid.

Quantity of faeces. During the boric acid period the quantity of faeces was slightly decreased.

The uric acid variation is too slight to permit of any conclusion being drawn from it. The alteration in the quantity of total sulphuric acid during the respective periods was very slight, but in the same direction as that of the total nitrogen.

interest absorbed £6,000, and £35,000 was put to reserve (bringing it up to £95,000); and the board recommend a dividend of 10 per cent. on the preference shares, a bonus of 2s. per share on the ordinary shares, carrying forward, subject to income tax, £5,041. Considerable difficulty was experienced in buying suitable stock during the past twelve months, a difficulty which has not yet passed away. In the early part of the year the outbreak of foot and mouth disease disorganized the ordinary arrangements for the movement of live stock, and later on heavy and continuous rains prejudicially affected the condition of both sheep and cattle, and in consequence the price of suitable stock during the whole of the year was higher than in any previous year. Owing to exceptional circumstances the markets for both mutton and beef were unusually firm during the whole year, and no difficulty was experienced in disposing of the increased quantities imported. A contract has been made with the Royal Mail Company for the carriage of chilled beef by their mail boats, and in connection with this development a light-craft steamer to bring down beef from Campana to La Plata port has been built, and is now on her voyage to the Plate. The board have thought it desirable again to strengthen the financial position of the company, and have added £35,000 to the reserve fund.

AN ALLEGED PRESERVATIVE

A correspondent, writing to the London Meat Trades Journal, says:

"I should like very much to be put in communication with a group of meat importers or capitalists to whom I could send (for my account) a few sample carcasses of mutton, which owing to a special process, will easily keep six weeks absolutely fresh, sound and tender at any temperature. The cost of this unique preserving is comparatively nominal. It is not a powder, nor a liquid; no machinery or ice required. I may state for your own satisfaction that I have just been tasting a leg of mutton preserved in above manner, and which was kept a fortnight in my kitchen. I found it as good as if the butcher had just sent it in."

FAVORS RANGE LEASES

The board of control of the American Cattle Growers' Association met at the headquarters of the association in the stock yards at Denver last week. President Lusk, of California, presided, and there were present Al Bowie, of Wyoming; J. C. Gilmour, of Texas; Conrad Shaefer, of Deuel, Colo.; H. H. Robinson, of Denver; F. C. Goudy, vice-president, of Denver; G. P. Smith, of Delta, and J. C. Leary, secretary.

It was decided that no assessment should be levied this year against cattle belonging to members, and that the board should recommend to the next convention that the annual dues of members of the association be increased and that the assessment provision be eliminated from the constitution.

The secretary reported that with the addition of new members there were now between 400 and 500 cattlemen in the association.

The principal object of the organization at this time is to secure a lease law from congress.

President Lusk named the committee to draft a land-leasing bill. It is composed of Colonel J. P. Irish, Oakland, Cal.; Henry M. Porter, Denver, Colo.; Bartlett Richards, Ellsworth, Neb.; A. B. Robertson, Colorado, Tex.; M. K. Parsons, Salt Lake City, Utah. They are avowed open leasers. A. B. Robertson was chosen because of his familiarity with the Texas land laws, which is the only precedent outside of the Australian land laws that the committee will have to guide them.

Speaking of this subject President Lusk, said:

"Public opinion is largely formed by those directly interested, and after the action taken on the subject by the National Live Stock Association at Fort Worth, in January, 1900, and by the American Cattle Growers Association at Denver last March, both favoring the idea, public opinion in the arid land states mostly effected appeared adverse. But since then events have followed so rapidly on the ranges since the facts became known that public opinion has changed with great rapidity on the subject.

"The adverse opinions come from the migratory sheepmen, who naturally oppose it, and by the small cattlemen, who not understanding the proposed measure, believed that they would be frozen out by large holders of cattle or sheep monopolizing the leases.

CATTLEMEN PAY BIG TAXES

"Growing of cattle on the ranges of the arid states is the pioneer industry commenced and brought to a high state of perfection many years before sheep were there at all. There is no such thing as a migratory cattleman. These investments for buildings and ranches on which to raise hay to winter their stock, and the herds of stock range from \$5,000 to \$1,000,000, on every dollar of which and all their cattle full taxes are paid to the local county. Now, in many sections all over the West, hundreds of thousands of sheep pour over the grazing lands of these cattle

and utterly devastate them, retire late in the fall without contributing one dollar to the county fund, but, on the contrary, lessen its tax roll by cutting in two the amount of cattle and sheep its residents could carry and pay taxes on if the migratory sheep bands were kept out.

"Another reason of great importance for such a law is that the ranges are now open battlefields between sheep and cattlemen, and also between sheepmen themselves. In these battles last year the homicides were numerous. But the controlling reason of this law is that the range, with its capacity to furnish meat for the country, is being rapidly destroyed. The effect of destroying the feed on the ranges is not only to ruin them, but the meadows in the valleys below. For the destruction of the ranges with all its future consequences, no human being can suggest any practical remedy, except its leasehold control, and that forces a passage of such a law by congress.

Just Lease Laws for All

"We are frequently asked if it will not be difficult to frame and administer such a law in a manner that will do justice to all. By no means. Such laws exist in Australia and Texas with satisfaction to everyone. Texas owns all its public lands. Both jurisdictions found themselves confronted with the same difficulty we are now in, and adopted the only remedy—a wise lease law. In each place the stock business is now on a permanent basis. Each stockman knows how many cattle or sheep he can carry without injuring his leasehold.

"The law will be for all, sheepmen as well as cattlemen. Many sheepmen favor it, and are just as anxious for its passage as cattlemen. This is especially so of sheepmen who have a fixed habitation. I am in receipt of daily communications from such men who tell me that while they know they cannot join the American Cattle Growers' Association, they favor such a law and want to aid in its passage in every manner possible. The whole situation was adequately summed up a few weeks ago by one of the most prominent sheepmen in Wyoming, who said that he realized that the time had now come when every one who owned sheep or cattle on the public range must have the ability to control a definite portion of it by lease.

"A vital feature of our proposed new law will be protection by preference right to lease by actual settlers and owners in a county, this to cut off all possibility of foreign syndicates coming into a county and renting the land away from the local resident stockmen. The bill will be fully safeguarded against any such star-routing.

"Another equally important feature will be the prohibition against leases being put up at auction. Many small stockmen have been justly and naturally frightened by the suggestion that the leases should be put up and sold to the highest bidder, and wealthy corporations thus secure them all. The auction feature will be prohibited and a fixed reasonable rent established.

Protecting Small Owners

"The most important feature that the new law will contain will be a provision adequately protecting the small stock owner and assuring his right to a full proportionate share of the ranges in his respective county. This must and will be plain and emphatic. No bill will ever pass the congress of the United States that does not contain the three principal features above named in unequivocal language. It is thought by those best informed on the subject that when a bill is framed fully protecting the small stockmen as against his larger neighbor, giving the preference to the actual resident stockgrower in each county and prohibiting any auction of leases, and it is generally circulated, that all oppositions to the measure will vanish from the stockgrowers, except from the owners of migratory sheep bands.

"It is widely proposed that the bill shall require the federal government to donate to each state the rental received in it, to be used for works to promote irrigation by storage of flood waters. This question is of supreme importance to every state having arid lands. Careful estimates place the amount to be thus used yearly at \$10,000,000. It will be remembered that at the last session the great river and harbor bill, carrying an appropriation of \$63,000,000, was defeated by an arid land senator because the East would not consent to include a paltry \$400,000 for promoting irrigation in the arid states. With such a bill as we propose the East will be relieved from that burden, ample sums for this great work will be provided, and hand in hand will go the preservation and improvement of the ranges with the storage of flood waters for constantly increasing irrigation."

In the matter of branding, a reform has been started by which the value of the hides will be increased. Under the old system of branding on the side, the hide was of relatively little value. The new plan is to brand on the neck or flank. By so doing the value of the animal is increased by about \$15.

FERTILIZER FACTORY PROJECTED

Advices from Birmingham, Ala., state that John C. Brain, of New York, representing the Standard Fertilizer Co., has on a deal with the Bessemer Land & Improvement Co., twelve miles south of Birmingham, looking to the purchase of a tract of land of about twenty acres on which a fertilizer and cement factory is to be constructed. It is intended by Mr. Brain to put up a factory that will cost something like \$250,000, and blast furnace slag will be used in the manufacture of the commodities named. There will be a daily output of about 150 tons of fertilizer and cement.

OLEO CASES DISMISSED

Squire Winkler, of Cincinnati, O., has dismissed three oleomargarine cases which have been pending before him, upon the request of Scott Bonham, attorney for the Food and Dairy Commission.

EXPORTS FOR FISCAL YEAR

The statement of the imports and exports of the United States for the fiscal year which ended on June 30, 1901, has been completed by the Treasury Bureau of Statistics. It shows that the total imports for the year were \$822,756,533, the total exports were \$1,487,656,544, and the excess of exports over imports was \$664,900,011. The imports are \$27,184,651 below, and the exports are \$93,173,462 above those of last year. The excess of exports over imports exceeds that of last year by \$120,358,113, and is \$49,467,335 greater than the highest record ever before made, that of 1898. Under the new relations with Hawaii and Porto Rico, the commerce of those islands is no longer included in the regular statement of foreign commerce of the United States. Had they been so included, as has been the case in former years, the total exports would have exceeded \$1,500,000,000, as the exports to those islands in the year have aggregated about \$25,000,000.

In the year ended June 30, 1901, some of the figures were as follows:

Breadstuffs, \$267,487,239, an increase as compared with the year 1900 of \$14,033,000.

Cattle and hogs, \$36,537,062; increase, \$7,500,000.

Provisions, \$179,875,250; increase, \$11,000,000.

The annual statement of the imports and exports of the United States for the year ended June 30, 1901, shows as follows:

Merchandise imports, \$822,756,533, of which \$339,487,153 was free of duty; increase on dutiable merchandise, \$565,062.

Merchandise exports, \$1,460,352,266; increase, \$89,588,695.

EXPORTS OF PROVISIONS

CATTLE.—June, 1900, 31,395 head., value \$2,889,076; 1901, 34,622 head., value \$3,159,489. For twelve months of 1900, 331,761 head., value \$28,825,060; 1901, 401,575 head., value \$36,362,826.

HOGS.—June, 1900, 3,205 head., value \$32,408; 1901, 1,224 head., value \$12,548. For

twelve months of 1900, 26,900 head., value \$209,336; 1901, 16,295, value \$174,236.

CANNED BEEF.—June, 1900, 3,556,886 lbs., value \$344,360; 1901, 2,517,649 lbs., value \$242,126. For twelve months of 1900, 55,048,355 lbs., value \$5,188,266; 1901, 52,884,439 lbs., value \$5,234,222.

FRESH BEEF.—June, 1900, 34,361,596 lbs., value \$3,078,181; 1901, 33,673,379 lbs., value \$3,149,472. For twelve months of 1900, 336,189,720 lbs., value \$29,323,098; 1901, 350,123,461 lbs., value \$31,720,433.

SALTED OR PICKLED BEEF.—June, 1900, 3,718,092 lbs., value \$214,518; 1901, 3,508,473 lbs., value \$203,329; For twelve months of 1900, 48,473,770 lbs., value \$2,817,992; 1901, 53,648,382 lbs., value \$3,057,150.

TALLOW.—June, 1900, 10,443,740 lbs., value \$526,059; 1901, 3,306,036 lbs., value 168,179. For twelve months of 1900, 87,879,087 lbs., value \$4,342,617; 1901, 76,701,333 lbs., value \$3,824,532.

BACON.—June, 1900, 42,871,589 lbs., value \$3,483,112; 1901, 31,684,156 lbs., value \$2,698,674. For twelve months of 1900, 509,524,430 lbs., value \$38,854,698; 1901, 452,459,768 lbs., value \$37,136,195.

HAMS.—June, 1900, 19,868,249 lbs., value \$2,168,223; 1901, 20,984,446 lbs., value \$2,209,157. For twelve months of 1900, 189,022,385 lbs., value \$19,734,406; 1901, 211,554,633 lbs., value \$22,367,891.

PORK, FRESH AND SALTED.—June, 1900, 10,473,655 lbs., value \$706,847; 1901, 9,147,808 lbs., value \$768,029. For twelve months of 1900, 138,535,081 lbs., value \$8,973,725; 1901, 154,057,265 lbs., value \$11,117,169.

LARD.—June, 1900, 46,772,928 lbs., value \$3,175,377; 1901, 48,360,407 lbs., value \$4,055,169. For twelve months of 1900, 645,293,645 lbs., value \$40,862,583; 1901, 594,568,671 lbs., value \$45,326,594.

OLEO OIL.—June, 1900, 21,229,127 lbs., value \$1,462,398; 1901, 17,496,251 lbs., value \$1,293,123. For twelve months of 1900, 146,303,805 lbs., value \$10,470,334; 1901, 161,522,300 lbs., value \$11,837,066.

BUTTER.—June, 1900, 960,484 lbs., value \$169,472; 1901, 2,333,296 lbs., value \$392,823. For twelve months of 1900, 17,632,512 lbs., value \$3,009,725; 1901, 22,651,644 lbs., value \$3,890,624.

OLEOMARGARINE.—June, 1900, 464,233 lbs., value \$48,109; 1901, 379,391 lbs., value \$29,949. For twelve months of 1900,

4,146,198 lbs., value \$405,703; 1901, 4,938,684 lbs., value \$478,678.

CHEESE.—June, 1900, 11,471,622 lbs., value \$1,118,258; 1901, 5,541,336 lbs., value \$513,907. For twelve months of 1900, 47,477,917 lbs., value \$4,851,311; 1901, 39,113,833 lbs., value \$3,884,696.

ALLEGED DISCRIMINATION

Baltimore, July 16.—A suit, in which the Baltimore & Ohio Railway Company is charged with violating the Interstate Commerce Law by discriminating against shippers, was filed in the United States Court here this morning by Myers & Houseman, dealers in live stock. Isidor Raynor, Attorney-General for Maryland, appears for the plaintiffs. The petition alleges that the complainants are damaged to the extent of \$25,000 to \$50,000 per annum by reason of being compelled to receive, house and feed their cattle at the Union Stock Yards in the city, alleging that officials of the railway company are interested in the stock yards in question, and that discriminations are made against those who do not avail themselves of the use of those yards.

No specific remedy is asked for, but the court is requested to apply the proper remedy and give plaintiffs the proper redress.

GERMAN COMMERCIAL ASSOCIATION IN JAPAN

Consul-General Guenther, of Frankfort, June 4, 1901, says:

A report from the German consul-general at Yokohama states that the German merchants of Yokohama and To-kyo have formed an association for the purpose of promoting German commercial interests in Japan. The association will also act in conjunction with similar German bodies in eastern Asia, and keep in touch with the East Asiatic Association of Hamburg. This new association has taken steps for the publication of a weekly newspaper in German. The German firms in Japan have guaranteed an annual amount of 6,000 yen (\$3,008) for a period of three years.

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THE E

National Provisioner

150 NASSAU STREET, NEW YORK

WESTERN TRADE ITEMS

WESTERN OFFICE OF THE NATIONAL PROVISIONER, ROOM 424 RIALTO BLDG., CHICAGO

Packinghouse Notes

The packing plant of Jacob Dold & Sons, of Wichita, Kan., was totally destroyed by fire Tuesday morning, July 16. There were four large buildings. It is estimated that 7,000,000 pounds of meat in process of preparation was destroyed. The loss is \$650,000, with insurance about \$400,000. One wall fell, injuring four men, but not fatally.

Samuel W. Allerton, of the Pennsylvania Railroad Company, and Nelson Morris are the promoters of a new stock yards, which will be established at Herr's Island, Pittsburgh, Pa. It will cost in the neighborhood of \$5,000,000. This will close the present stock yards at East Liberty, and by consolidating them with the new yards at Herr's Island will make a formidable rival of the Chicago yards.

It has been known that Mr. Allerton was negotiating with the Pennsylvania Railroad Company to have it buy up the Pittsburgh Provision Company. This deal was closed a few days ago for \$700,000. It is the intention to improve this plant to the extent of \$1,500,000, which will modernize it and make it as complete as the great plant of Swift & Company's here.

With this plant in active operation it will be possible to supply a good part of Pennsylvania, Ohio and New York with fresh beef, and at the same time save a haul of several hundred miles, which not only takes time, but is quite expensive and frequently subjected to delay.

The stock yards at East Liberty, which are to be abandoned, have a capacity of 300 cars of cattle, 10,000 sheep and about 15,000 hogs a week. The new yards will have an increased capacity of 450 cars of cattle, 15,000 sheep and 20,000 hogs. The new improvements at the Pittsburgh Provision Company will enable the company to kill 1,000 to 1,500 cattle and 6,000 to 7,000 sheep and hogs each week.

It is said on good authority that Mr. Allerton will be president of the new yards, and that Simon O'Donnell, of the Simon O'Donnell Company at the stock yards, will be the general manager. The part taken by Mr. Morris is in a financial way.

This connection he does not care to admit, but he has admitted he wants an interest in the new yards and packing house for the purposes of filling rush orders for a special kind of kosher meat for his Pennsylvania, Ohio and New York trade.

Work will be begun at the new yards at once, and it is expected they will be completed within five months.

Board of Trade Notes

Board of Trade memberships sold at \$2,300.

Telegraph people say their business on the Board of Trade is the largest since 1893. Their general telegraph business is on such a scale at present operators to do the work are not easy to get. A feature of the telegraph situation is the scarcity of competent operators because of an abandonment of the profession by many of the best men, a result of the numerous opportunities in other fields of late.

Railroad Notes

Executive officials of the Burlington are considering the advisability of establishing a pension system covering all the lines operated by the company. The matter is now in the hands of Chairman Perkins, of the Burlington Board, and of President Harris. Since 1889 the Burlington has had in operation a voluntary relief department, which now takes in more than 60 per cent of all the employees. It is presumed that if a pension system be established the relief department will be merged with it as a separate department, somewhat after the manner of the Baltimore and Ohio system. It is the present intention to exclude high-salaried officials from the benefits of the proposed system, and there is a talk of fixing the salary limit, beyond which an employee is not eligible at \$3,000. This would leave between 20,000 and 30,000 employees who would be eligible to a membership in the pension bureau.

Western lines have negatived a proposition to grant a rate of one fare plus \$2 for the annual convention of the International Live Stock Association to be held in Chicago.

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Pork Loins, Tenderloins, Trimmings,
Spare Ribs, Hocks, Etc.

HENRY J. SEITER, Union Stock Yards, Chicago.

NEW STEAMSHIP LINE

Philadelphia, Pa., July 16.—The Manchester Corporation, the first steamer of the Philadelphia-Manchester line, sailed to-day from the pier of the Manchester Canal Company for this port, thus opening not only a new line between an English port and this city, but also the first regular line sailing from Manchester to any port in the United States.

The steamer, on her return trip, will take out a full cargo from this port, enough goods being already consigned to her to practically insure the success of the trip. At present there will be but two steamers engaged in the trade, thus insuring two sailings a month. As soon as the trade increases the fleet will be added to so that there will be weekly sailings.

The new line will run in connection with the Philadelphia and Reading Railroad, its branches and connections, and the rates of freight to interior English points will be lower than freight consigned to Liverpool, as the land transportation will not be so long and expensive.

Manufacturing Sites on St. Clair River

Unequaled Rail and Water Transportation to both

Eastern and Western Markets.

LOW TAXATION.

Manufacturers contemplating a change of location will do well to correspond with us.

South Port Huron Improvement Company, Port Huron, Mich.

LATE COTTONSEED NOTES

It is reported that the Virginia-Carolina Chemical Co. has purchased the following plants: Mutual Cotton Oil Co., Columbus, Ga.; Chester Oil Mill, Chester, S. C., and the Pee Dee Oil & Ice Co., Darlington, S. C.

LATE TRADE GLEANINGS

E. R. Waterman, Jamestown, S. D., is contemplating the establishment of a tannery at Billings, Mont.

Armour & Co.'s new building at Altoona, Pa., has been completed.

LATE ICE NOTES

The Retail Grocers' Association, Little Rock, Ark., is interested in the formation of a company to build an ice plant.

Swift & Co. will build a new poultry house at Omaha, Neb.

The Boston Butter Co., Albany, N. Y., capital \$3,000, has been incorporated.

N. B. Bridges, Topeka, Kan., Chief Clerk to State Labor Commissioner, is contemplating the construction of an ice plant.

The Hutchinson Produce Co., Hutchinson, Minn., will build a creamery.

The South Will Creamery, Will, Ill., was burned.

The plant of the Smithfield Ice Co., Smithfield, Va., is in operation.

The San Antonio Ice Co., San Antonio, Tex., capital \$100,000, has been incorporated by E. F. Glaze, M. Freeborn and C. W. Ogden.

The Hudson Produce Co., Hudson, Wis., will erect a creamery.

The new creamery at Franklin, Ill., will be completed about Aug. 15.

The Tri-City Bottled Milk & Butter Co., Rock Island, Ill., capital \$100,000, has been incorporated by W. B. Page, E. W. Woodcock and B. F. Peek.

An ice company is being organized by local parties at Tuscaloosa, Ala.

The Beaumont Ice, Light and Refrigerating Co., Beaumont, Tex., will double capacity of ice plant.

Work has commenced on the cold storage warehouse of Louis Hunter, Kendrick, Ida.

The Iowa Pure Butter Co., Keokuk, Ia., capital \$20,000, has been incorporated by S. P. Pond, W. T. S. White, T. H. Pond and others.

The creamery of Roach & Seeber, Oconomowoc, Wis., was destroyed by fire.

A combine of ice companies at Lorain, O., will form a company with capital stock of \$100,000, and build a 70-ton plant.

An ice plant is to be erected at Booneville, Ark., says the Little Rock Gazette.

Produce Exchange Notes

New members elected: A. E. Berner, H. Z. Bowne, F. P. Breckinridge, B. B. Bryan, George M. Kirkner, Adamson R. McCanless, Lyron J. Martin, A. Ruyter, Richard Webber, Jr.

Visitors at the Exchange: Henry Mathys, Hamburg; J. Beck, Paris; M. Schwarbacher, Arthur Berg, H. H. Churchill, F. F. Fuller, Chicago; E. A. Warner, Minneapolis.

Produce Exchange memberships nominally \$150.

**USE THE
"HAM & BEEF"
RETAINER
AND SAVE MONEY**

THE HAM CASING COMPANY,

PATENTEE AND SOLE MANUFACTURERS,
1217 FILBERT STREET, PHILADELPHIA, PA.

FRIDAY'S CLOSINGS

Provisions

There are better cash demands; the market is still working practically under the influences from the corn situation.

Tallow

Firm at 4% for city hhds., at which the contract deliveries were made.

Oleo Stearine

Quiet; 9½ bld; 9¾c to 9¾c. asked.

Cottonseed Oil

Hard to buy at 38 for prime yellow on spot; 34c. bid for October.

RECEIPTS AT CENTERS

JULY 15.

	Cattle.	Hogs.	Sheep.
Chicago	29,000	53,000	25,000
Kansas City	10,000	10,000	2,000
Omaha	2,500	6,000	2,200
St. Louis	8,000	5,000	7,000

JULY 16.

	Cattle.	Hogs.	Sheep.
Chicago	4,500	25,000	15,000
Kansas City	2,000	25,000	4,000
Omaha	4,000	20,000	6,000
St. Louis	7,000	11,000	7,000

JULY 17.

	Cattle.	Hogs.	Sheep.
Chicago	16,000	33,000	23,000
Kansas City	6,000	24,000	4,000
Omaha	3,500	12,500	2,000
St. Louis	2,700	9,000	5,000

JULY 18.

	Cattle.	Hogs.	Sheep.
Chicago	5,000	24,000	12,000
Kansas City	6,000	17,000	2,000
Omaha	1,000	10,500	700
St. Louis	3,700	7,000	2,000
Sioux City	200	2,500	...

JULY 19.

	Cattle.	Hogs.	Sheep.
Chicago	5,000	16,000	5,000
Kansas City	5,000	17,000	2,000
Omaha	1,000	9,000	2,500
St. Louis	1,200	5,000	500

ANGORA GOAT STOCK FARM

Secretary Badenhoop of the Maryland State Bureau of Immigration has announced that the National Angora Goat and Cattle Company had completed a deal whereby it secured 1,750 acres of land in Charles and Prince George counties, and in which it will establish an angora stock farm. This land was bought from Congressman Mudd and John A. Barker.

The company was organized in New Jersey, with a capital of \$100,000. The officers are James Sharp, President; George F. Thompson, Secretary, and Horace A. Field, Vice-President and General Manager. Mr. Field has gone abroad to buy 4,000 of the finest angora goats to be shipped to Maryland.

INVESTIGATION OF MILL SALES

According to Charleston dispatches, the Attorney General of South Carolina is preparing to investigate the purchase of the Southern Cotton Oil Co. by the Virginia-Carolina Chemical Co. with reference to its bearing on the anti-trust law.

This invention is a Casing for boiling Boneless Hams. It is a device that saves time, labor and money. It saves shrinkage, increases the flavor of the meat, and gives the ham a beautiful shape and appearance.

Hundreds of Packers are now using The Ham Retainer in all parts of the country. Why not be up to date and adopt The Ham Retainer at once. We invite your correspondence.

At Proctor's

Manager F. F. Proctor presents another famously successful comedy at his Fifth Avenue Theatre next week in the revival, by Division E of the F. F. Proctor Big Stock Co., of Mr. William Gillette's three act mirth provoker, "All the Comforts of Home." This play was originally acted at Manager Proctor's Twenty-third Street Theatre when that resort was promoting big productions for the Frohmanns and at that time Mr. Proctor acquired an interest in the play which he still retains. Thus the comedy comes back to Mr. Proctor's theatre, to be revived by his own company at a time when it is the only dramatic offering in New York. Since the play was originally produced, its author has become America's most famous author-comedian and while the original merits of the comedy were sufficient to warrant a long run at the house of its original production the present standing of its author lends added interest to the Proctor revival.

EXPOSITION ENTRIES CLOSE

Entries for exhibits at the Pan-American cattle and swine exhibits closed Monday, and entries for the sheep show will close on Aug. 1. The entries are now being catalogued, and while the exact number has not yet been announced, it is known that the entry list is so large that it will be necessary to erect additional barns to house all the cattle.

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TRADE GLEANINGS

Louis Scheh, Lockhart, Tex., has started a soap factory.

The slaughter house of R. S. Webb, near Detroit, Mich., was destroyed by fire.

J. D. Healy, Derby, Conn., will build a bone grinding and fertilizer plant.

The Scharbauer Cattle Co., Midland, Tex., capital \$375,000, has been incorporated.

Ignaz Fanz, Knoxville, Tenn., will erect a sausage factory, meat packing and cold storage house.

The sausage factory of P. M. Chappell, Batavia, N. Y., was burned; fire thought to be of incendiary origin.

It is reported that the mill of the Trenton Lumber Co., Trenton, Me., will be used as a sardine cannery.

It is reported that Armour & Co. will have their own can plant so as to be independent of the can combine.

The Wheeling Butchers' Association, Wheeling, W. Va., will rebuild fertilizing plant recently destroyed by fire.

The Morning Star Cattle Co. ranch near Hudson, Wis., will be transferred to J. M. Hixon, of La Crosse, Wis.; consideration, \$65,000.

The National Can Mfg. Co., Brooklyn, N. Y., capital \$200,000, has been incorporated by F. H. Wilson, H. E. Hutchinson and W. H. Hubbard.

The F. M. Cattle Co., Burwell, Neb., capital \$25,000, has been incorporated by W. D. Oldham, J. M. Easterling, L. B. Fenner and Blake Maher.

W. J. McKay, Orangeville, Ont., Can., has organized the St. Lawrence Packing Co., which will establish a pork packing plant at Brockville, Ont.

The Cincinnati, O., Board of Police Commissioners will receive bids until Aug. 6, for the supply of fresh and salted meats for one year for the city workhouse.

Six men were recently arrested for the theft of 3,200 pounds of butter at Hull, England. They loaded a truck from a steamer, and their audacity disarmed suspicion.

The assessors of Milwaukee, Wis., are contemplating an increase of 100 per cent. in the assessments on personal property of the Plankinton Packing Co., the Bodden Packing Co., and the R. Gumz Co.

Nine carloads of milk are consumed daily by the butter and cheese factories of the Lake St. John district, Quebec, Can. One dealer has purchased the season's cheese supply at nine cents per pound.

The Chicago Tinplate & Can Co., Chicago, Ill., capital \$2,500,000, has been organized by W. G. Bibbard, O. S. A. Sprague, A. A. Sprague, H. N. Higinbotham and P. B. Kimberly. They will build a \$700,000 plant to be operated independently of the combine.

The hot weather has demoralized the egg market of northern Kansas, and the jobbers are paying only 2 2-3 cents a dozen. In many instances not more than 25 per cent. of the eggs received are fit to ship.

(Late Trade Gleaning page 18.)

THOMAS D. KINGAN DEAD

Advices from Belfast, Ireland, say that Thomas D. Kingan died on July 8. No particulars are given. An Indianapolis paper, speaking of the deceased, says:

Thomas D. Kingan was one of the founders of the pork packing house of Kingan & Co., and was a large stockholder at the time of his death. He leaves a widow, but no children.

Samuel, Thomas D. and James Kingan were in the business of pork packing at Cincinnati, from where they came to this city forty years ago, and started in a comparatively small way, what is now the house of Kingan & Co. The house was reorganized in 1875, and in 1881 Thomas D. Kingan retired from the active management and went to Herefordshire, England, where he had bought an estate. His brother James had died previously to that date. Samuel Kingan is still living and connected with the house, but never lived in the city, though paying occasional visits here.

Thomas D. Kingan was for many years a leading business man of this city, at one time president of the Board of Trade and a promoter of the Belt Railroad and Union Stock Yards. He was a man of kindly and generous nature and gave largely in an unostentatious way to the poor. There are many here who will be grieved to hear of his death. He was seventy-one years old.

WILL SHIP BY EXPRESS

Kingan & Co., Ltd., Indianapolis, Ind., have issued the following notice to the trade:

"As the weather this season is extremely warm and unfavorable for shipments of fresh meats by freight, we wish it understood, that from now forward we will ship all orders for fresh meats and cooked meats by express, unless customers distinctly state on their orders to ship by freight, and that they will accept full responsibility for same, as our responsibility ceases when we deliver the goods in proper condition to the carrying company. This, of course, will not apply on orders sent us in for shipment in our refrigerating cars."

CHICAGO WATER CASE DECISION

Harry Boore, superintendent of the Continental Packing Company, Chicago, Ill., who was convicted several months ago for alleged water thefts for his company from an illicit pipe connected with a city water main, practically received an acquittal last week, when Judge Tuley gave him a new trial. The state was not left with a leg to stand upon, figuratively speaking, and it is doubtful whether Boore will be brought to trial a second time.

The opinion, which was exhaustive, was in favor of Boore in every particular. It set forth that there was no evidence to connect Boore with the wilful theft of the water, or to show that he was possessed of

knowledge of the pipe, which was laid by the direction of the engineer of the plant. Judge Tuley also held that the instructions asked for by the state were faulty in part.

Referring to the evidence introduced to show that the packing company paid \$6,000 to the city for extra water taken from the alleged bogus connecting pipe, Judge Tuley held that it was paid under protest and only after a threat of the city officials to shut off the supply and cripple the plant if the city's claim were not paid.

"That settles the case and the state will not dare to go to trial again," said the attorney representing Boore.

STRUCK OIL

David Hayes, of New Bedford, Mass., who recently went to Kansas City, Mo., to become manager of the machinery department of the Creamery Package Manufacturing Company, reports that he has made a big strike of oil in a new country, which may pan out to be something of a bonanza. In company with an old friend he became interested in rumors of oil lands, and in a recent letter to a friend he tells of their good fortune in a valuable discovery.

EXPORTS OF PROVISIONS

Exports of pork, bacon, ham and lard from principal Atlantic ports, their destination and a comparative summary for the week ending July 13, 1901:

	Week July 13, 1901.	Week July 14, 1900.	1900, to July 13, 1901.
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PORK, BBLS.			
U. Kingdom ...	1,572	191	45,666
Continent ...	163	233	19,765
S. & C. Am. ...	181	499	16,217
West Indies ...	1,295	1,647	62,595
Br. No. Amer.			
Colonies ...	50	28	5,159
Other countries		30	1,245
Totals.....	3,851	3,688	150,647

BACON AND HAMS, LBS.			
U. Kingdom ...	14,907,310	14,066,120	501,119,156
Continent ...	1,988,731	2,925,360	66,065,032
S. & C. Am. ...	77,554	82,450	4,350,161
West Indies ...	80,250	261,425	8,622,840
Br. No. Amer.			
Colonies ...			13,000
Other countries	8,000	11,875	873,225
Totals.....	16,810,845	16,967,220	583,894,314

LARD, POUNDS.			
U. Kingdom ...	5,303,788	4,100,901	218,952,460
Continent ...	4,053,946	5,091,441	187,108,421
S. & C. Amer. ...	287,720	494,130	15,964,260
West Indies ...	419,470	583,000	18,980,412
Br. No. Amer.			
Colonies ...	166	812	80,002
Other countries	30,240	11,870	2,009,488
Totals.....	10,096,124	10,942,784	443,006,003

Recapitulation of Week's Exports.			
From—	Pork, bbls.	Bacon and Hams, lbs.	Lard, lbs.
New York.....	2,305	5,057,375	5,590,180
Boston.....	508	6,565,625	1,501,228
Portland, Me.	635	630,450	
Philadelphia.....	230	1,303,025	544,300
Baltimore.....	96	134,025	388,283
Norfolk.....			
N'port News.....		46,860	758,583
New Orleans.....	57	9,000	84,750
Montreal.....		2,134,765	402,500
St. John, N. B. ....			....
Totals.....	3,851	16,810,845	10,096,124

COMPARATIVE SUMMARY.			
Nov. 1, 1900 to July 13, 1901	Nov. 1, 1899 to July 14, 1900	Decrease	
Pork pounds.....	30,129,400	34,302,600	4,173,200
Hams and bacon, pounds.....	583,894,314	516,129,137	67,765
Lard, pounds.....	443,006,003	467,472,487	24,376,484

TECHNICAL AND SCIENTIFIC

COMMERCIAL FATS

BY T. SEELIGMANN

Neutral Fatty Bodies

This generic name has been given to natural substances drawn from the vegetable or from the animal, but not from the mineral, kingdom, and presenting certain common chemical and physical characteristics differentiating them clearly from other things with which they are associated in nature. The mineral kingdom only produces hydrocarbons having some physical resemblances to the neutral fats, which sometimes cause the one class of substance to be mistaken for the other.

In practice, the vegetable and animal fats of which we are speaking are classified under three heads. Those which are solid at ordinary temperatures are called greases, and those which are liquid are called oils, while those of intermediate consistency are known as butters. This classification, although sometimes adopted also in the literature of the subject, is of no scientific value, and for many reasons a division into only two classes is to be preferred, viz., animal and vegetable fats. Although these two classes have many points, physiological, physical, and chemical, of resemblance, they have marked differences, especially as regards the proportions which they contain of their constituent substances.

All neutral fats, of either origin, when quite pure, are either liquid or fusible at very low temperatures, and have neither color nor smell. They are not volatile at ordinary temperatures, and although they can be distilled, that process is invariably attended by partial decomposition. They are lighter than water and insoluble in it, but soluble in boiling alcohol, ether, petroleum, bisulphide of carbon, etc. They stain paper, and impart to the sense of touch a feeling somewhat like that experienced when talc powder is rubbed between the fingers. When spread in thin layers upon substances previous to water, they have a tendency to sink in, and hence to waterproof the said substances.

The neutral fats are so universally distributed in the vegetable world that they are found in all the parts of every plant, naturally, however, in varying portions. The wood, the roots, the tubercles, and leaves, all contain either fat or waxy matter, so closely allied to the fats that it is impossible not to study them with them. It is probable that science will finally succeed in converting the one into the other. Even the lowest types of plant contain the neutral fats, as can be easily proved by the example of the yeast plants which contain considerable quantities of fatty matter.

The largest contributors of fats for human use are nevertheless seeds and fruits. These often contain more than 50 per cent. of their weight of fat. The almond for example yields 54 per cent. of oil. In the earlier stages of their development grains and fruits are comparatively poor in fat, but the amount increases as they pass on to maturity. Science can as yet tell us little as to how the fats are formed in the living plant, but we think with Thalmann that it is not by the transformation of albumen as it is in animals, but probably from carbohydrates (starches and sugars), which are so abundant in plants, by loss of oxygen. Other chemists attribute the genesis of vegetable fats to special fermentations. Fat plays a very important part in the germination of seeds, and is no doubt retransformed into carbohydrates as food for the young plant.

Fats are quite as abundant in the animal as in the vegetable world. They occur in thick layers under the skin, as in the pig, in the abdomen of the ruminants such as the ox and sheep, and in the marrow in bones. The whole of the muscular tissue

of animals is traversed by layers of fat and fat is an invariable constituent of nerve matter in every healthy animal. Some animals, such as bees, secrete large quantities of fatty matter, and it may be safely affirmed that its production is universal among animals as it is among plants. Man procures fat not only from mammals, but from birds, amphibia, fish, and even insects. This universality of the presence of fat in animal bodies is no doubt due to the fact that their vital processes make it from all kinds of food. Stored up in the tissues, it itself can furnish a reserve in times of scarcity, and hibernating animals, such as bears, bats, and hedgehogs, owe their continued existence during their lethargy to the gradual consumption of the fat stored up in the summer in their tissues.

(To be continued.)

ANSWERS TO CORRESPONDENTS

FARMER, SYRACUSE, N. Y.—Apples are most excellent, wholesome food. An apple is quite as nourishing as a potato.

Chemically, the apple is composed of vegetable fibre, albumen, sugar, gum, chlorophyll, malic acid, gallic acid, lime, and much water. Furthermore, the apple contains a larger percentage of phosphorus than any other fruit or vegetable. This phosphorus is admirably adapted for renewing the essential nervous matter, lethicin, of the brain and spinal cord.

It is, perhaps, for the same reason, rudely understood, that old Scandinavian traditions represent the apple as the food of the gods, who, when they felt themselves to be growing feeble and infirm, resorted to this fruit for renewing their powers of mind and body.

The acids of the apple are also of great use for men of sedentary habits whose livers are sluggish in action, these acids serving to eliminate from the body noxious matters which, if retained, would make the brain heavy and dull, or bring about jaundice or skin eruptions, and other allied troubles.

The malic acid of ripe apples, either raw or cooked, will neutralize any excess of chalky matter engendered by eating too much meat.

A ripe, raw apple is one of the easiest vegetable substances for the stomach to deal with, the whole process of its digestion being completed in eighty-five minutes.

H. H. G., WILMINGTON, DEL.—The proportion of fat of an animal varies greatly with its condition; it seldom falls below six per cent. or rises above 30 per cent. This, of course, is taking the total weight of fat compared with the total weight of the animal. (2) The yield of tallow from beef fat also varies with the kind of fat and with the nature of the method of cooking. From kidney fat, green and warm the yield will approach 82 to 85 per cent. From cold and dry kidney fat about 96 to 98 per cent. may be obtained. From ordinary bed-trimming fat, by cooking in tanks about 92 per cent. fat may be obtained. The yield varies greatly with the nature and source of the fat, the method of cooking and especially the manner in which the product is handled in the tank or kettle.

C. M., DAYTON.—(1) The usual hardness or titre of oleo stearine varies from 48 degrees to 52 degrees, seldom, however, reaching the latter. The general average will run about 50 degrees in titre. (2) Tallow will vary in titre from 41 degrees to 44 degrees, the usual average being about 42 to 42.5 degrees. (3) Greases will run in titre about 38 degrees.

"PACKER," SEATTLE.—In reply to your question: "All meats gain in pickle considerably in weight, which gain varies considerably under different circumstances. Meats which may be expected to hold over for a considerable period, such as pork, ribs, etc., should always be packed in 100 degree pickle. A layer of rock salt at the top and bottom of barrel will keep the pickle up to the required strength. All pickles lose strength to a considerable extent when curing fresh meats. When put in a tierce say at 85 degrees salometer, the pickle after ten days, often will show as low as 73 degrees.

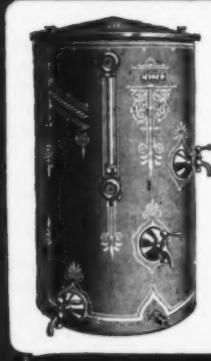
"BUTCHER," MANHATTAN.—The recipe you desire, you will find in our book on the manufacture of sausages as well as over 100 others for different kinds. We think it would pay you to make the small investment of \$2.00 for this book, which we send upon receipt of price.

"C. C. C."—(1) The process for the manufacture of beef extract while seemingly simple, requires working instructions from one experienced in that line if a success is to be made of the business. If you care to acquire these we can furnish the complete working process to you. (2) Your other queries have been answered by mail.

DIXON'S Pure Flake Graphite, THE PERFECT LUBRICANT.

Sample and Pamphlet Free.

JOSEPH DIXON CRUCIBLE COMPANY, JERSEY CITY, N. J.



Don't be Sceptical

When we offer you a filter on thirty days trial to be returned at our expense if not satisfactory—you can't afford to be sceptical.

The Cross Oil Filter

saves 50% on your oil bills. It's the best (not because we say it because 11 years of successful use have proven it.

Shall we send Catalogue?

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Akron, Ohio,
U. S. A.

Largest Manufacturers of
Oil Filters in the World

We also make
The Burt Exhaust Head

INSURANCE NOTES

The variableness in the extent of destruction of property by fire through similar periods of time is very apparent, whether the periods be months, years or decades. This truth was agreeably emphasized last month when, according to the computation of the Journal of Commerce and Commercial Bulletin, the fire losses of the country aggregated but \$9,599,000, as compared with \$22,380,150 in May. Even after deducting the abnormal losses at Jacksonville, Fla., which are included in the May total, a most encouraging decrease is observable. Not only that the June, 1901, total is nearly \$12,000,000 below that of the same month last year, although still exceeding the June, 1899, loss by almost three millions. However, a more hopeful feeling has been engendered among underwriters by the improved showing for the month, and for the six months ending with June, the waste for the latter term having fallen nearly twenty million dollars from the record established in the first half of 1900. If the diminution of losses continues at the same rate for the remaining portion of the year, the insurance companies may make a small profit or, at least, break even.

In addition to the withdrawals of fire insurance companies heretofore noted, several prominent institutions have taken steps to restrict their future operations in this country. The Transatlantic Fire and the North German Fire, both of Hamburg, Germany, have disposed of their risks to other companies, with the exception of those in Cook County, Ill., and in the Pacific Coast territory. The Imperial, of London, is closing its Southern department, as is also the Magdeburg Fire, of Magdeburg, Germany, and the Hamburg-Bremen, of Hamburg, contemplates abandoning a considerable number of its agencies in the South which have proved unprofitable. The insurance companies are seriously handicapped in certain Southern and Western States by the greediness of the authorities in many cities and towns. Not content with taxing the companies (if tax them they must) in proportion to the business transacted, they require franchise or occupation license fees, which in some cases are practically prohibitive. Thus, one particular city having a population little in excess of 30,000, imposes a yearly license fee of \$400 upon each company wishing to do business in its limits. A company starting in there afresh would do well to secure \$2,000 in premiums, of which 20 per cent. would be needed to cover the license fee. And yet this city has been peculiarly insistent in its demands for "lower insurance rates." Its own course of action, if consistently followed, will almost certainly result in lessened competition, a scarcity of insurance writing power and, naturally, a rise in the price of insurance. In such times as these, when instead of expanding, insurance organizations are rather seeking to curtail their profitless operations, the towns which place heavy and obnoxious obligations upon insurers are among the

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first to be vacated by the underwriters. Fire insurance is recognized as a business necessity, and is worth its cost; but the latter could often be materially reduced if business men and city fathers co-operated intelligently to that end. The opposite course, which is usually followed, is likely in times of stress to cause the death of the goose that lays the golden egg.

FORT WORTH REPORT

A dispatch from Fort Worth, Tex., says: While it is generally believed here that Armour & Co. and Swift & Co. will ultimately erect packing houses in Fort Worth, nevertheless information of a reliable character was received here this week from Chicago that Armour & Co. would make no improvements here this year, and that nothing had been decided on for the future. It is thought this decision has been reached recently on account of representations which have gone North by private correspondence that crops in Texas this season have been very poor, and that the corn crop especially has been almost a complete failure.

ABATTOIR FOR READING

The Reading Cold Storage and Ice Company, Reading, Pa., is planning the erection of a packing house and abattoir on the property at Ninth and South streets. It will be one of the largest establishments of its kind in Pennsylvania. The abattoir will be fitted up with the most modern machinery, and will have a killing capacity of 4,000 hogs a week and 500 cattle. The stock will be prepared outright for the market. The plant will be of brick, four stories high, and plans will be prepared as soon as some other details are arranged. Operations will be commenced as soon as possible.

SPOOR'S INVESTMENT

Wells M. Cook, of Chicago, has transferred to John A. Spoor, president of the Union Stock Yards and Transit Company, eighteen acres of land lying just north of the Chicago stock yards, and comprising part of what is known as the Robbins tract. The consideration named in the deed is \$110,000, and Mr. Spoor declared it was made on his own individual account, the stock yards company being in no way interested in the deal.

The transaction was the formal consummation of a deal closed on March 28 last, when Susan A. Robbins and Francis C. Adams, of New York, transferred the property in question to Mr. Cook. The property is triangular in shape, and has a frontage of over 1,500 feet on the river. The stock yards slip forms the other leg of the triangle, the base of which is the stock yards' property.

"I made the purchase on my own account as an investment," said Mr. Spoor. "The property has a big frontage on the river, and when the latter is improved by the Drainage Board, as I hope it will be soon, the property should become valuable for coal docks or some similar use. It struck me the property was a good investment at the price named, and so I took it."

Personal Items

St. Julien Ravenal, the popular New York agent of the McCaw Manufacturing Co., Macon Ga., who has been on a visit to the South, was back to the Produce Exchange this week.

Elliot T. Barrows, who as president of the Produce Exchange for two years worked hard for its interests, received this week a testimonial from his late associates in the Board and other members of the Exchange. A very handsome silver dinner service was presented to him at the gathering of his friends.

The Rice-Beitenmiller Switch Co.,

Manufacturers and Sole Patentees of

The R. B. Interlocking Switch

1152 and 1154 Germantown Avenue, Philadelphia, Pa.

Contractors for Overhead System of Tracking for Abattoirs, Packing houses and Refrigerators. Send for Catalogue.



O

UR READERS

As an advertising medium The National Provisioner gives satisfaction to its patrons. The reason is that it reaches a large number of business classes with news and information every week which is interesting to its readers and vital to their business. Here are some of the lines of trade it reaches:

PORK AND BEEF PACKING HOUSES; RETAIL MEAT MARKETS;
 SLAUGHTER HOUSES; SAUSAGE FACTORIES;
 CANNING FACTORIES; RETAIL GROCERIES;
 GLUE FACTORIES; BUTTERINE FACTORIES;
 FELT AND CURLED HAIR FACTORIES; HOTELS AND RESTAURANTS;
 TANNERIES; DAIRIES;
 LARD REFINERIES; CITY AND COUNTRY CLUBS;
 OLEO, TALLOW AND GREASE RENDERING PLANTS; DELICATESSEN STORES;
 GUT AND CASING MANUFACTORIES; SPICE MANUFACTORIES;
 FERTILIZER WORKS; GOVERNMENT COMMISSARIES;
 SOAP AND CANDLE FACTORIES; CATERERS AND FOOD CONTRACTORS;
 AMMONIA MANUFACTORIES; RAILROAD AND STEAMBOAT COMMISSIONARIES;
 EXTRACT PLANTS; MUNICIPAL STORES;
 COTTON OIL MILLS; COMMISSION HOUSES (DOMESTIC AND
 COLD STORAGE WAREHOUSES; FOREIGN);
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 WOOL PULLING ESTABLISHMENTS; HOME AND FOREIGN BROKERS;
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It circulates in every country on the globe. It is the organ of and the accepted authority in the meat and provision, packing and allied industries in the United States. It is subscribed for by the purchasing departments of nearly every government in the world; and is on file in every permanent commercial exposition and museum. It is a business necessity. It is universally respected. It has an exclusive circulation not covered by general advertising. These are some of the reasons why The National Provisioner is considered a high-class advertising medium.

CENSUS OF ENCLOSED CATTLE

The Census Office has issued Bulletin No. 17 showing, "Domestic Animals in Barns and Inclosures, not on Farms and Ranges."

This bulletin has been prepared under the direction of Mr. Le Grand Powers, chief statistician for agriculture. It presents the results of one part of the special inquiries relating to live stock, authorized by Congress, in an Act, amendatory to the law relating to the Twelfth Census, approved Feb. 1, 1900.

By that amendment the census authorities were directed to collect statistics, not authorized by the original Act, relating to two classes of domestic animals. The first class consists of live stock upon the unfenced public domain of ranges of the West and South; the second, of domestic animals not located on what are popularly known as farms or ranges. In the second class are included all domestic animals in cities, towns and villages; in stock yards; all employed in manufacturing, lumbering and mining industries, and kindred enterprises; and all used for pleasure or profit by individuals other than farm proprietors.

In this bulletin are presented statistics of the animals in the second class. Similar statistics have never before been collected in the United States.

The enumerators generally reported animals on farms on the regular farm schedule, and other live stock on a specially prepared schedule, although in a few instances some animals were reported on one schedule that should have been properly on the other. These errors, however, are purely formal, and are generally easily detected. Most of the reports of animals, which were improperly made on the schedule for live stock not on farms or ranges, have been transferred to the proper places. The reports improperly made on the regular farm schedules cannot, however, be corrected until all those schedules have been prepared for tabulation. It was deemed unwise to delay, for several months, the publication of these tables in order to include the further statistics to which reference has just been made.

The aggregate number of barns or inclosures reporting domestic animals not on farms or ranges, June 1, 1900, was 1,878,207. This was substantially one-third of the total number of farms at the same time in the United States. Of these barns and inclosures, 784,560 contained neat cattle; 7,564, sheep; 452,928, swine, and 21,527, goats. The number of various kinds of domestic animals in these barns and inclosures was reported as follows: Neat cattle, 1,466,970; sheep, 156,470; swine, 1,592,861, and goats, 47,652.

The sheep tabulated in this bulletin are largely those reported in connection with stock or feed yards in the various parts of the country. They also include a few of those kept on June 1 by individuals who own farms, and at certain seasons of the year have the animals running at large on unfenced land.

Florida reports the largest number of swine to an inclosure, which is 83.

For cities with over 100,000 inhabitants, Kansas City and Memphis report the largest relative number of horses and mules, respectively; Chicago, the largest relative number of sheep; Indianapolis, of swine, and New Orleans and Milwaukee, of goats.

Attention is requested to the fact mentioned in the introduction to this bulletin, that certain enumerators reported domestic animals on the regular farm schedule, which should have been reported upon the schedule for live stock not on farms or ranges. The tables given must, in consequence, be regarded as in a measure provisional. At the present stage of work in the Census Office, it is impossible to detect and include all such cases, and all, therefore have been omitted. When that work has been completed, the Census Office will publish a supplemental table regarding the animals not on farms or ranges, but returned on the farm schedules. This will include, in addition, live stock in transit June 1, 1900, and not reported by the enumerators, together with animals in the stock and feed yards of certain cities, such as Jersey City, St. Louis and Kansas City, which were also omitted by the enumerators.

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ALLERTON IN PITTSBURG

Advices from Pittsburg say: Samuel A. Allerton, the well-known packer and stock yard man of Chicago, and who is at the head of the company now making improvements in Herrs Island, arrived in this city. The new concern, the Pittsburg Packing and Provision Company will likely be organized at once. This company will do a large meat packing and stock yard business on the island.

Mr. Allerton said his chief purpose in coming to this city was to inspect the island. It is his intention to make rough plans for a stock yard, and also a packing establishment. He then will submit these plans to an architect and have drawing made for the yards and buildings. The capacity of the new yards will equal 1,200 cars of live stock a day, and the new plant will cost \$250,000, and will be as complete as can be made.

ANNUAL LIVE STOCK CENSUS

Secretary C. F. Martin of the National Live Stock Association has received a letter from Secretary of Agriculture Wilson, in which he states that the department expects to secure from the next session of congress an appropriation for the maintenance of a new bureau, which will make an annual classified census of all kinds of live stock. President John W. Springer and Secretary Martin have returned to Denver from the convention of northern Wyoming stockmen, held at Douglas.

EXCHANGE ELECTION

The annual election of officers of the New Orleans Live Stock Exchange was held recently. John H. Mumford was re-elected president; B. F. Howell was re-elected vice-president; R. E. Norton was elected treasurer, and A. H. Isaacson, secretary. The committees will be appointed at a later meeting by President Mumford.

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Are made from fine selected corn-fed porkers, the kind that produce tender, juicy hams. They are cured and smoked with particular care in order to produce the famous Premium flavor. Approved by the U. S. Government.

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Packing Plants at Chicago, Kansas City, Omaha, St. Louis, St. Joseph, St. Paul

OVER TWO HUNDRED AND FIFTY BRANCH HOUSES IN THE UNITED STATES

MOISTURE IN COLD STORAGE

BY L. C. CORBETT

(In Bulletin 74, W. Va., Ag. Exp. Station.)

Besides the temperature in a cold storage room the degree of moisture is of considerable importance.

It is neither necessary nor desirable that the storage room should be absolutely dry; on the contrary, it may be too dry as well as it may be too damp. If the room is too dry it will favor the shrinkage and drying out of certain goods. If the room is too damp goods are liable to spoil and become mouldy, etc. For this reason the moisture should always be kept below the saturation point. This condition can be ascertained by the hygrometric methods described in the chapter treating on water and steam.

There is little danger that the rooms will ever be too dry: on the other hand, they are not required to be absolutely dry, and as to chemical dryers, such as chloride of calcium, oatmeal, etc., they are probably superfluous, with proper ventilation and refrigerating machinery properly applied.

Generally the artificial drying of air is considered superfluous in cold storage, as the air is kept sufficiently dry by the condensation that forms on the refrigerating pipes. In this way the moisture exhaled by fruits, etc., is also deposited. Special care, however, is to be taken to remove the ice from the coils from day to day as it forms, in which case it is readily used in storage houses refrigerated by artificial refrigeration. Freshly burnt lime is sometimes used in egg rooms.

In cold storage houses operated by natural ice, chemical or physical absorbents, such as oatmeal, slackened lime, chloride of calcium and chloride of magnesium are frequently used. The latter substance is the principal constituent of the waste bittern of salt works, which is sometimes used for drying air in the cold storage of fruit.

The waste bittern is spread out on the entire surface of the floor, and, if needed, on additional surfaces above it. One square foot of well exposed bittern, either in the dry state or state of inspissated brine, will be enough to take up the moisture arising from two to six bushels of fruit, varying according to its condition of greenness or ripeness. The floors of the preserving room should be level, so that the thick brine running from the dry chloride may not collect in basins, but spread over the largest surface. The moisture from the fruit taken up by the absorbent varies from about three to ten gallons for every 1,000 bushels of fruit weekly. The spent chlorides or the spent waste bittern may be revived by evaporation, by which they are boiled down to a solid mass again.

The waste bittern is also used as a crude hydrometer by dissolving one ounce of the same in two ounces of water and by balancing the shallow tin dish containing the mixture on a scale placed in the cold storage room. If the scale keeps balanced, it indicates the proper state of dryness, but if the weight of the mixture increases

the moisture of the room is increasing and the means for keeping the air dry should be put in operation.

Dry Air for Refrigerating Purposes

To produce a dry air by mechanical means, St. Clair considers the entire absence of any condensing or refrigerating surface in the space to be refrigerated absolutely necessary. The rapid circulation of the air in the room is also of vital importance; and in such circulation no contact of the incoming cold air with the outgoing warm air to cause condensation is the result aimed at. To insure these

conditions, he places the refrigerator at the highest point, and has communicating air shafts from the bottom of the same to the rooms to be cooled. Like shafts ascend from the top of the rooms cooled to top of refrigerator. The refrigerating coils in the refrigerator are kept at a temperature of zero to 15° below, and a small stream of strong brine is allowed to drip over the coils to a pan underneath, being pumped back to the upper drips as fast as deposited. This brine will have a temperature ranging from zero to 4° below. The action is said to be simple and effective; all moisture is either condensed or frozen instantly as it comes in contact with such low temperature, and absolutely dry air descends in the air shafts to the rooms to be cooled.

Cold Storage Temperatures

Generally speaking, the temperature of cold storage rooms is about 34° F. For chilling the temperature of the room it is generally brought down to 30° F., and in the case of freezing goods from 10° F. to 0° F.

The temperature and other conditions best adapted for the cold storage of different articles of food, provisions, etc., have been compiled in the following paragraphs, which reflect the views of prominent and successful cold storage men.

Storing Fruits

The temperature for storing fruits are given in the following table:

Fruits	Remarks.	°F.
Apples		32-34
Bananas		34-36
Berries, fresh...	For 3 or 4 days...	34-36
Canteloupes	Carry about 3 weeks...	32
Cranberries		33-34
Dates, figs, etc.		34
Fruits, dried		35-40
Grapes		33-36
Lemons		34-40
Oranges		36
Peaches		35-45
Pears		33-36
Watermelons	Carry about 3 weeks.	32

Apples when stored in barrels should not be stored on ends, but preferably on their sides. A temperature of 32° is considered most favorable.

In general, green fruits and vegetables should not be allowed to wither. Citrus fruits and vegetables should be kept dry until the skin loses its moisture, then the drying process should be immediately checked. For bananas no rule can be

made. The exigencies of the market must govern the ripening process, which can be manipulated almost at will.

Fruits, especially tender fruits, should be placed in cold storage just when they are ripe. They will keep better than if put in when not fully ripe.

Pears will stand as low a temperature at 33°. Sour fruit will not bear as much cold as sweet fruit. Catawba grapes will suffer no harm at 26°, while 32° will be as cold as is safe for a lemon.

The spoiling of fruit at a temperature below 40° F. is due to moisture. In storing apples eight to ten cubic feet storage room space is allowed per barrel, and twenty to twenty-five tons daily refrigerating capacity per 10,000 barrels.

Storing Vegetables

Articles.	°F.
Asparagus	34
Cabbage	32-34
Carrots	33-34
Celery	33-35
Dried Beans	52-40
Dried Corn	35
Dried Peas	40
Onions	32-34
Parsnips	33-34
Potatoes	34-36
Sauerkraut	35-38

Asparagus, cabbage, carrots and celery are carried with little humidity; parsnips and salsify same as onions and potatoes, except that they may be frozen without detriment.

(Chapter VI, Cold Storage, "Compend of Mechanical Refrigeration," by J. E. Siebel.)

PACKING PLANT FOR SALE

Attention is called to the advertisement on page 28 of a modern packinghouse and business for sale. As this plant comes on the market through the death of the proprietor, an active and healthy property is thus accessible to those desiring a paying business. When it is considered how much time and money are required to inaugurate any business of this kind, the exceptional opportunity of acquiring at a moderate price, the good will and established business of a live and active plant should be eagerly considered by prospective bidders. The plant is thoroughly modern in every respect, and fitted with a complete lard refinery of large capacity. The brands of this concern are favorably known in a wide distributing center and the large sales of its lard attest the esteem in which they are held. All communications relative to terms, location, itemized statements, etc., should be addressed to Box 95, The National Provisioner. The plant is in a locality where a butchers' co-operative packing or slaughter house might be favorably inaugurated.

TANNING SADDLE SKINS

Hermann Roser, of Glastonbury, Conn., the tanner, has finished shipping a large consignment of tanned hogskins to Canadian contractors, to be used in the manufacture of saddles for the English army. Only high grade skins are called for, and Mr. Roser has shipped on this contract during the past three months some 1,600.

Importers and Cleaners of Sausage Casings

First hands in Spices, Saltpetre, Potato Flour and Preservatives.

WEILS CASING COMPANY
626-630 Howard St., Buffalo, N. Y.
THE OLD RELIABLE CASING HOUSE**Subscription Canvassers****WANTED IN LEADING CITIES
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Stockyards, up-to-date abattoir, cold storage and ice plant for sale or lease, at large Western river and rail terminal. Replies to F. W., Box 29, care of THE NATIONAL PROVISIONER.

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American Plan.

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G. H. MUMM & Co.**EXTRA DRY.**

As shown by Customs statistics, the imports in 1900 of G. H. Mumm's Extra Dry reached the enormous figure of 119,441 cases, being 79,293 cases more than of any other brand—a record unprecedented in the history of champagne. Special attention is called to the remarkably fine quality now being imported.

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**COLD STORAGE AND
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Haying Tools, Hand Hoists and Overhead Tracking for Cold Storage and Warehouses

The Closest Inspection

of our ice-making and refrigerating machinery will convince you that it is honestly built, and has absolutely no weak points.

In building this machinery, not only the ice-making machine itself, but also the accessory machinery, receives the most careful attention.

Our interest doesn't cease after we have received an order and put in our machinery.

We see to it that the machine works properly and produces the results promised.

The wonderful popularity of the YORK MACHINE is due not only to the goodness of the machine itself, but also to the perfect working of all the parts used in connection with it.

Our catalogue contains many interesting facts about our goods.

Write for it.

YORK MANUFACTURING CO.

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ESTIMATES FURNISHED. CONTRACTS EXECUTED.

Asbestos Paper and Packings. Mineral Wool. Trade Supplied.

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Manufacturer of
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REFRIGERATORS
Headquarters for Circle E. and P., Ceverlat,
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Butchers SuppliesSUMMER SAUSAGE
CASINGS, ETC.**Cottonseed Oil Machinery**

MODERN GINNING SYSTEMS

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E. Van Winkle Gin & Machine Works
ATLANTA, GEORGIA, U. S. A.

Local Oil Mills and Ginneries Combined

Direct Electric
Hydraulic
Passenger**ELEVATORS**Freight
Sidewalk
Carriage

ICE AND REFRIGERATION

The cheese factory at Brewerton, N. Y., was destroyed by fire.

R. W. Roberts will erect a cold storage plant at Weyauwego, Wis.

The cold storage plant at Central Islip, L. I., is nearly completed.

The Jasper cheese factory, Irish Creek, Ont., Can., was destroyed by fire.

An ice factory will be built at Wills Point, Tex., says the Houston Post.

The Blue Earth Co-operative Creamery, Blue Earth, Minn., will build new plant.

The Colorado Springs Creamery, Colorado Springs, Colo., was damaged by fire.

The Edna Co-operative Creamery Co., Edna, Kans., capital \$4,975, has been incorporated.

The Litchfield Creamery Co., Litchfield, Mich., will establish a butter factory at Quincy, Mich.

The Kentwood Ice Mfg. & Pottling Works plant, at Kentwood, La., was destroyed by fire.

The Sharon Springs Creamery Association, Sharon Springs, Kans., capital \$2,000, has been incorporated.

The Southern Dairy & Creamery Supply Co., Ltd., New Orleans, La., has filed liquidation proceedings.

The Otter Hook Ice Co., New Baltimore, N. Y., has been organized by L. Bronk, F. H. Giblett and A. A. Dowst.

The Champeny Creamery Co., Plymouth, Wis., has failed; liabilities \$32,622, farmers' claims \$20,000, assets \$32,610.

The West African Cold Storage Co. has been registered by Jordan & Sons, Ltd., 120 Chancery Lane, London, W. C.

G. H. Langdon, 1035 Tyler street, Topeka, Kans., is interested in the formation of a new ice manufacturing company.

A cold storage combine to control plants in several states is reported in contemplation. The report comes from Indianapolis.

The officers of the Kansas Ice & Storage Co., Salina, Kans., have not decided whether the plant, destroyed by fire, will be rebuilt.

The National Dairy Co., San Francisco, Cal., capital \$10,150, has been incorporated by F. Bareilles, E. Kate, T. Bareilles and P. A. Bergerot.

The Richmond Cold Storage Co., Richmond, Va., capital \$1,000 to \$5,000, has been organized by A. J. Pizzini, A. J. Pizzini, Jr., and others.

The Stephenville Ice Co., Stephenville, Erath county, Tex., capital \$10,000, has been incorporated by G. E. Toliver, G. R. Fagan and F. H. Chandler.

A condensed milk factory to cost \$50,000 will be built by a new company at Fort Lupton, Colo. Officers: F. A. Meredith, G. G. Philip, E. St. John and J. B. Rackliff.

(Late Ice Notes, page 18.)

A. H. BARBER MFG. CO. CONTRACTS

The following orders were taken by the A. H. Barber Mfg. Co., during the last 30 days:

Emerson Mfg. Co., of Rockford, Ill., for a 12-ton refrigerating machine for cooling brine with which they temper steel.

Texas Refining Co., of Greenville, Texas, for a 14-ton belt refrigerating machine to be used in their oil refining process.

The Dunckley Co., Kalamazoo, Mich., packer of celery and peaches, for an 8-ton belt refrigerating machine to be used for cooling their cold storage plant for peaches at So. Haven, Mich.

B. S. Boyson, Brownwood, Texas, for a 3-ton ice and 7-ton refrigerating plant, a 12x36 Corliss engine and feed water heater.

Illinois Western Hospital for the Insane, Watertown, Ill., for a 5-ton refrigerating plant directly connected to an 8x10 slide valve engine.

Humboldt Cold Storage Co., of Humboldt, Iowa, a 10-ton refrigerating machine directly connected to engine for their new cold storage plant.

Alden Creamery Co., of Alden, Ill., have enlarged their plant, so that they now have a 6-ton refrigerating plant.

Gonzales Fish & Oyster Co., of Mobile, Ala., for a 2-ton ice plant and a 4-ton refrigerating plant.

The Tri-City Bottled Milk & Butter Co., of Rock Island, Ill., an 8-ton refrigerating plant.

W. M. Baxter, Elizabeth City, N. C., for a 10-ton ice plant and a 11x24 Corliss engine, and a 54x15 boiler.



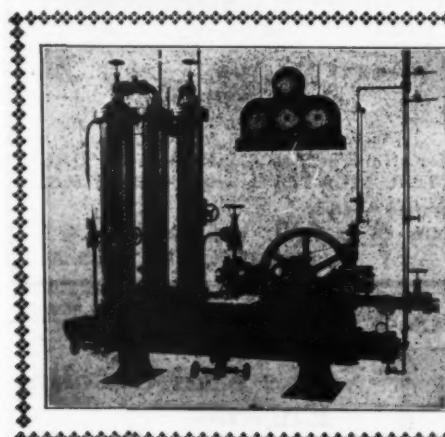
P. & B. PAPERS

Air-Tight, Water-Proof, Acid-and-Brine Proof. Very Durable. Endorsed by Experts. Tasteless, Odorless. Only the Best Materials in their make-up. Have stood the test of seventeen years' use.

THE STANDARD PAINT COMPANY
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Chicago Office: 189 Fifth Avenue

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Our Mighty Midget- Ice and Refrigerating Machine

OCCUPIES LITTLE SPACE,
DOES GREAT WORK.

Designed specially for packinghouses, hotels, creameries, small refrigerating plants.

MACHINES ALL SIZES.

HENRY VOGT MACHINE CO.
LOUISVILLE, KY.

New Catalogue on Application.



AUTOMATIC REGULATOR.
Regulates flow of weak
liquor to absorber.

To Cottonseed Oil Manufacturers

Does your oil give trouble in refining? Are you making too much foots or is your shrinkage too great?

Do you want to avoid the formation of free fatty acids in your stock?

Are you getting the full yield of oil from your seed?

Are you making the highest grade of oil possible from your stock?

Is there too much oil left in your cake or meal?

Do you have trouble in pressing?

Are you bleaching, deodorizing or settling your oils in the best and cheapest way consistent with good results?

Have you off grades you want to bring up to market requirements?

Do you want to make "cotto," lard or other cooking compounds from your oil?

The above are but few of the many points constantly presented to the manufacturer. Small troubles, if not speedily corrected, increase to the point of actual loss in running your plant. Should you have difficulty in any of your operations, we will give you practical suggestions and advice, gained by years of experience.

Practical information and instruction by a practical man given on cotton oil manufacture in all its branches.

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Official Chemists of the N. Y. Produce
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ESTABLISHED 1863

The Joseph Bogner Barrel Manufactory
Buyer and Seller of empty Sugar, Flour,
Cracker, Salt and Oil **BARRELS**
Mail Orders Promptly Attended to. Barrels
Bought and Sold all through the City and
Country Towns. Good Stock always on hand.
Write for Prices.
Pork barrels, lard tierces, butter, butterine
and lard tubs, and tierces of all kinds.
OFFICE AND WAREROOMS,
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Superintendent

FIRST-CLASS practical man
wanted as Superintendent
of hog slaughtering packing
house. Must be thoroughly ex-
perienced in similar position.
Apply by letter only, stating full
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Union Stock Yards CHICAGO

\$1—ONE DOLLAR

Send us \$1, and we will send
to you one copy of Redwood's
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THE NATIONAL PROVISIONER
150 Nassau St., New York

FOR SALE

A Packinghouse and Business

Owing to the recent death of owner, an exceptional opportunity is presented to acquire a complete, recently equipped modern and up-to-date packinghouse in a city of 60,000 inhabitants, New York State, in an excellent distributing locality. Fully equipped for slaughtering and shipping cattle, hogs, sheep and calves, with large established trade. Is fitted with lard refinery, recently installed fertilizer plant, etc. Has a daily capacity of 200 hogs, 1 carload cattle and 3 cars small stock, with 9 horses, 5 new wagons, trucks, etc. Will dispose of complete plant only, with its established trade and good will.

Address, "PACKER," Box 95, The National Provisioner.

A Pure Food Necessity

The New Jersey Melting and Churning Company,
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Churners of High-Grade Butterine, Domestic and Export

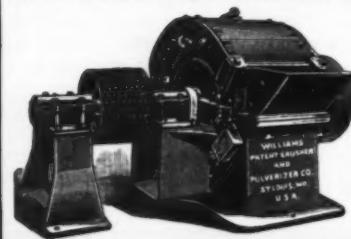
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PATERSON AVENUE AND JACKSON STREET, HOBOKEN, N. J.

THE COMPANY HAS DECIDED TO SELL 25 ADDITIONAL
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The Williams Patent Crusher and Pulverizer Co.

813 Montgomery St.
ST. LOUIS, MO.



Bone, Phosphate, Oil Cake,
Tallow and everything enter-
ting into the composition
of Fertilizer. ☺ ☺ ☺ ☺

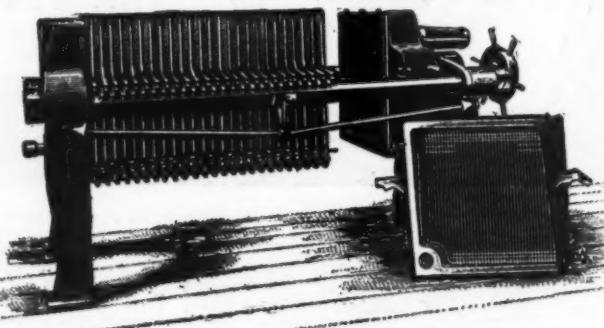
Smith-Vaile Filter Presses

For Clarifying COTTON and LINSEED OILS, Animal Oils and
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Special PRESSES built to suit the business for which they are required.

We also
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Cotton
Seed
and
Linseed
Oil Mill
Machinery

Jet and
Surface
Condensers



STEAM and POWER PUMPS for all purposes. AIR COMPRESSORS
for general use. FEED WATER HEATERS and PURIFIERS.

If interested address

The Stilwell-Bierce & Smith-Vaile Co.
290 LEHMAN STREET, DAYTON, OHIO, U. S. A.

J. J. orman

Brown Gas Engine Co.

K. J. Norman

Norman Bros., Western Agents
49 W. Lake St., Chicago, Ill.



Gas and Gasoline
Engines

NEW AND SECOND-HAND GAS ENGINES FROM 1 TO 60 HORSE POWER

PROSPECTIVE RAILROAD WAR.

The struggle between the northwestern and the so-called Chicago lines and the southwestern lines for freight traffic is more vigorous and persistent than ever before. In addition to their success in getting the larger share of the Kansas City packing house products, the southwestern roads are now making inroads on the traffic of the northwestern lines destined for Pacific coast points. The Union Pacific group of roads, including the Oregon Short Line, is said to have taken considerable westbound traffic away from the Great Northern system. President Hill of the last-named road is credited with the intention of organizing a vigorous competitive campaign as soon as the Northern Pacific-Great Northern-Burlington combination is in working order.

CUT IN RATES

Advices from Kansas City, say: The Missouri Pacific has met the cut rates on packinghouse products to Shreveport, inaugurated by the Kansas City Southern several days ago. In addition it applied the rate to Alexandria and Monroe, La. The rate is now 26 cents, a cut of 15 cents in the tariff formerly in effect. The Kansas City Southern made the move on the ground that competitors were secretly carrying packinghouse products at 26 cents. All southern lines will put in the 26-cent rate.

"DIAMOND" BRAND MAKERS

An enterprising Baltimore firm is that of Streett & Corkran, 2812 to 2818 Pennsylvania avenue. They are makers of the celebrated "Diamond" brand lard, hams and breakfast bacon. They have a valuable reputation as pork packers, sausage manufacturers and lard refiners, and their business has grown to such proportions that a branch house has been opened at 126 North Paca street.

Mr. Streett established the business 22 years ago, and Mr. Corkran was, for 18 years, a partner in Lamb & Co. The firm of Streett & Corkran has been established since last February.

BOLOGNA COMBINE

Lancaster, Pa., July 14.—The latest industrial combination in Pennsylvania is the bologna sausage trust, which has just been formed by the manufacturers of Lebanon, Berks, Dauphin, Schuylkill and Lancaster counties.

Every manufacturer in the counties named, with one exception, is in the deal. Lebanon is the headquarters of the trust.

SUES PRODUCE EXCHANGE

Conrad J. Ertz has commenced an action against the members of the Minneapolis Produce Exchange, alleging malicious conspiracy. He wants \$25,000 damages. Ertz claims that the exchange, by means of a boycott, declared on his commission house, damaged him to the extent of \$25,000.

THE MARKET REVIEWS

PROVISIONS AND LARD

All articles under this head are quoted by the bbl., except lard, which is quoted by the cwt., in tcs., pork and beef by the bbl., or tierce, and hogs by the cwt.

Weekly Review**Large Hog Supplies and Apprehensions****Over Labor Troubles Weakened Prices****-Fitful Changes—Speculation****Varying in Force With the****Corn Position**

The position of the hog products has had varying influences through the week. No one questions the exhibit of statistics as highly favorable to well-controlled markets. At the same time there is some doubt that the hog products can realize the full benefit from their moderate showing of stocks while some other conditions tend to unsettle them. Unquestionably the provision trade has taken a little alarm over the labor troubles; spreading of strikes means a good deal in reducing consumption of some food products; the agitation early in the week affected the hog product situation, later developments have made a more or less nervous feeling over the markets. The response was quick since previous to the reports the situation had been strong. An additional element of weakness part of the week was in the large receipts of hogs. That the swine are being hurried out of farmers' hands by reason of scarcity of water and the effect upon the feed crops by the drought, is clear in the large number of pigs and small weight hogs arriving; many of them are, as well, out of condition. It is, however, plain that the situation of the corn crop is likely to add at some time to the strength of the hog product markets, whatever temporary weakness it occasions through forcing large supplies of hogs upon the marketable centres. Even admitting the consideration that heavy rains may soon come along, and that corn at its present growth in some sections can stand a good deal of dry weather and yet come out all right, the fact remains that with whatever damage has been done the crop by late developments the grain had a poor spring season, that it was planted late and has had since unfavorable weather conditions, and that with all of the adverse conditions that the corn crop is likely to be decidedly under an average one; a reduced corn crop coming upon the country with practically exhausted offerings of old supplies means, of course, high prices for the grain; therefore our belief is that whatever temporary influences develop for the hog products through anxious marketing of hog supplies and diminished demands for the products which usually come about upon unsettled prices, that at some time in the late summer or early fall months, if not before the period, there is likely to be some excitement all around. For awhile we are not looking for more than moderate changes in the prices of the hog products.

That the market values may sympathize with the grain occasionally in the near future is counted upon, but most of

the time the situation is likely to depend upon the hog supplies and manipulation to take in the hog products. The packers gather up all offerings of hog products at any standing of prices. Some of them are most anxious to get meats, as having fair supplies of lard from their productions steadily, and which latter they are offering from their consignments to foreign markets at decidedly lower prices than possible to lay it down on the market prices here. Other packers gather up the entire list of products coming out, and are anxious to enlarge their holdings under the steady absorption of their productions.

The speculation in the hog products begins to take on the October option; the speculator has confidence in the late option, while recognizing the fact that the nearer deliveries may have fitful changes in the antagonistic influences referred to. In operating in the early deliveries the disposition seems to be to quit holdings whenever small profits are shown, as the speculators feel that variable prices are probable.

In the later period of the week labor troubles appeared to be of a more pacific character. At least where further strikes had been feared there seemed a probability of a settlement of them. This, in connection with increasing speculative interest, sent the hog products to a reaction.

The exporters are failing off in interest over offerings of the products, because of the frequent reactions in their prices, although it would appear that most foreign markets would buy if there were more settled conditions here. Of course, the foreigners look upon our markets as rather extreme, but they are as well taking into consideration the probabilities from statistical positions, while watching developments over the corn crop closely. A sentiment of confidence exhibited here would probably influence their views, but with continued erratic conditions in this country they would likely be very conservative over furnishing buying orders.

In New York the Continent shippers are doing little in refined lard. The general export business in Western lard here is small. The shippers have taken about 400 tierces city lard. In pork the export movements are of a moderate order; prices hold up very well, except city family, which is offered easier. The compound business here has been very moderate for a few days at the advanced prices of 7@7½c. The city cutters have a slow demand for bellies at the firm prices held for them and which are occasioned by the cost of hogs. The pickled shoulders sell well at full late prices, and pickled hams are actively wanted at strong prices.

The demands from the West Indies are satisfied chiefly upon Western markets.

Sales in New York for week to present writing: 500 tcs. western lard pt. (quoted \$8.75; 550 tcs. city lard, \$8.20@\$8.50; 400 tcs. do., for export, on pt. (compound lard, 7@7½c.); 625 bbls. mess pork, \$15.25 to \$16.25; 350 bbls. short clear do., \$16.00@ \$17.50; 225 bbls. city family do., \$16.00@ \$16.50; 2,500 pickled shoulders, 7½@7½c.; 3,700 pickled hams, 11@11½c.; 7,500 bbls. pickled bellies, 12 lbs., 10c.; 5,000 lbs. do., 14 lbs., 9½c.; 5,600 lbs. smoking bellies, 11@11½c.

BEEF.—Has less attention, but held firmly; city extra India mess, tcs., \$16.00; barrelled, mess, \$9.50; family, \$12.00; packet, \$10.50.

Exports from the Atlantic ports last week: 3,851 bbls. pork; 10,096,124 pounds lard; 16,810,845 pounds meats; corresponding week last year: 3,688 bbls. pork; 10,942,784 pounds lard; 16,987,320 pounds meats.

HIDES AND SKINS

CHICAGO

PACKER HIDES.—While the demand has to some extent abated, there is still a fair call, with no weakening in the views of packers. The undermining tendency lies both in the naturally increased supply and the disposition to force cattle of immature age upon the market. These influences are not, however, sufficiently strong to cause any general or lasting depression, as they affect only certain classes.

No. 1 Native Steers, 60 lbs. and up, free of brands, were only in fair request, though the early prospect of increased demand is good. Moderate sales have been made at from 12½ to 13.

No. 1 Butt Branded Steers, 60 lbs. and up, are comparatively limited both as to supply and demand. They have moved at 11½ and are held at 12.

Colorado Steers.—Are a strong factor at 11½. They are closely sold up.

No. 1 Texas Steers.—Sales of exclusive heavies could be effected at 13½. Lighter weights sell at a variety of prices. General receipts are increasing, which fact is expected to have an easier tendency.

No. 1 Native Cows, free of brands, 55 lbs., are in limited supply and now available at from 10 to 10½, according to date of salting. The market is in easier tendency, and tanners hesitate, in anticipation of more favorable terms.

Branded Cows.—The request has lessened to some extent in consequence of the sharp demand for light leather. Supplies will increase soon.

Native Bulls.—Are nominally worth from 10 to 10½. The request is indifferent.

Country Hides.—The continued dry weather and other adverse conditions have upset the calculations and effectually killed off the advancing trend. The unfortunate crop conditions are responsible for the influx of immature cattle, which is exerting a decidedly unhealthy influence over hide prices, and tanners, who probably have been eager buyers under ordinary conditions, are prone to hold off in the evident expectation of buying on more favorable terms than those now offering, which are at present lower than those recently declined by dealers.

No. 1 Butt Hides, 40 to 60 lbs., free of brands and grubs, are in plentiful supply at 8½@9½ for the two selections, but the views of buyers are hardly above the even money.

No. 1 Extremes, 25 to 40 lbs., offer at Buff prices, and are subject to exactly the same conditions.

Branded Steers and Cows.—Sell in a small way at 8½@8¾, and are in indifferent request.

Heavy Cows, 60 lbs. and up, free of brands and grubs, are not quotable above 9¾, though, because of being in special request for certain purposes, have brought as high as 10, which sales could hardly be duplicated at present.

Native Bulls.—Range from 8½ to 8¾ flat. They are in limited supply.

Calfskins.—Country skins have sold at 11½, but it is thought that prices will ease off in sympathy with general conditions.

No. 1 Kips, 15 to 25 lbs., have sold in a small way at 9½, and are a fairly strong factor at the price.

Deacons.—Range from 60 to 80, having receded somewhat.

Skunks.—30.

Horse-hides.—Range from 3.25 to \$3.35, according to weight, quality and selection.

Sheepskins.—Both packers and country markets have lost tone. We quote:
Packer Pelts.—\$1.05@\$1.15.
Country Shearlings.—85@1.00.
Packer Lamba.—55@57½.
Packer Shearlings.—40@42.

BOSTON

While Buffs are being held (and will continue to be held) at 9½, buyers are far from being eager purchasers at a fractionally lower price. They will not operate to any extent unless at figures consistent with their views, many claiming that they will either appreciably curtail or shut down altogether in preference to paying prices at which they claim it would be impossible to convert hides into leather at a profit. New Englands continue in good request at 9, the supply not being more than adequate to the demand.

PHILADELPHIA

The general indisposition to operate, which characterizes the attitude of tanners elsewhere, prevails here, and they are pursuing a waiting policy. The appended schedule cannot be said to be firmly sustained. We quote:

City steers.
City cows.
Country steers, 10½.
Country cows, 9.
Bulls, 8½@9.
Sheepskins, increase.
Calf.
Calfskins—Recession in prospect.

NEW YORK

Green Hides.—The market is losing caste. Tanners were unwilling to meet the views of holders, in consequence of which holders have altered their prices in order that they may more nearly conform to the views of tanners. We quote:

Native steers, 60 lbs. and up, 12½@13.
Butt branded steers, 11½.
Side branded steers, 11½.
City cows, 10@10½.

Bulls, 9½@10.
Horse-hides, \$2.00@\$3.25.

SUMMARY

The Chicago situation, in common with those prevailing at other centres, has weakened. The continued dry weather and the consequent and unusual influx of cattle have continued to depress conditions. While the situation is affected in a general way, the influence is principally apparent among holders of light hides. The country situation is subject to the same influences, and the advancing tendency which recently prevailed has been effectually blocked, as a result of which dealers who bought "not wisely but too well," and who declined comparatively high prices, are still in possession of these high-priced offerings, and it looks like a case of "to have and to hold," unless they prefer to separate from these hides at figures which, to say the best of them, will hardly yield a profit. The courage of Boston holders, which, by the way, is proverbial, is exemplified in their holding Buffs at 9½, despite the fact that buyers are a long way from being eager to purchase even at a fractionally lower price. Several of the latter state that, unless they can purchase their raw materials at prices that can be reconciled to finished leather values, they will either appreciably curtail their output or shut down until such time as a satisfactory adjustment is reached. The Philadelphia and New York centres are practically in the same position as the contemporary points, and the outcome is being watched with more or less interest.

HIDELETS

Oscar Scherer, the well known New York tanner, who has just completed a three months' tour of Europe, will arrive home next Tuesday.

The hide business formerly operated by A. G. Spier, Sr., Philadelphia, deceased, will hereafter be carried on by his son.



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TALLOW, STEARINE, GREASE AND SOAP

Weekly Review

TALLOW.—The market has hardly varied this week. The supplies of city made are firmly well sold up, despite the fact that there is no general activity at any time. There seems to be an even sort of demand, either from English shippers or the local soap trade. It is true that one lot of city in hhds. was offered early in the week at 4 13-16c. on temporary dullness and because of a break in the lard market. But that 1-16c. decline was recovered the next day, and since then to this writing 4 1/2c. has prevailed for city in hhds. and 5 1/2c. for city in tierces. There have been sales of 200 hhds. city for England at 4 1/2c. and 50 hhds. do. at 4 1/2c. A lot of 100 hhds. city was also reported at 5c., but this latter probably had some conditions, as there were other sellers at the time at 4 1/2c. We look at the tallow markets of the country in this way: That it would be impossible for them to sag materially, because supplies are very moderate and by reason of prices being practically upon a basis for shipments to England. The offerings of the beef fat are much less than usual, because of the active consumption of the compound makers. It may be that tallow will show little change through the remainder of the summer months, but there seems an impression that when cooler weather sets in, its probable statistical position, the indications of consumption for manufactured goods, and the prospects of the corn crop influencing products with which tallow sympathizes, that there will be forced a situation of the beef fat more in favor of sellers. The local soap buyers use up any surplus offerings of city as well as of country made. The country made has sold this week at 4 1/2c. to 5 1/2c., as to quality, for about 225,000 pounds. The melters in the country are not hurrying their productions forward; they, seemingly, have faith in the near future; moreover, most of them are turning out rather less of a supply of the under grades, while they find a quick sale for their nice goods to markets that are having a liberal trading in manufactured goods. The English shippers have been taking choice tierced goods at neighboring markets at firm prices; they secured about 900 tierces at Philadelphia and Boston at 5 1/2c. The London sale on Wednesday showed unchanged prices, with 1,500 casks offered and half of it sold. Edible grades in New York are not having much export attention, but there is a disposition to hold them firmly; city quoted at 6c., at which 200 tierces were sold. The Western markets are fairly well sold up, while they rule about steady. In Chicago, quotations, 6 1/2c. for edible, 5 1/2c. for prime

packers, 5 1/2c. at 5 1/2c. for No. 1 do., 4 1/2c. at 5c. for No. 2 do., 5 1/2c. at 5 1/2c. for city renderers, 5 1/2c. at 5 1/2c. for prime country, 4 1/2c. at 4 1/2c. for No. 2 do. The contract deliveries to the home trade of about 200 hhds. city will probably go in at 4 1/2c.

LARD STEARINE.—Does not have much demand. Offerings, however, are small. The lard refiners get about all they need from their own productions. Choice is quoted at about 10c.

OLEO STEARINE.—The compound lard business is slow this week, and its makers are rather neglecting the market for the stearine. The city pressers, however, are not urging supplies, although efforts to sell some small lots of out of town have shown rather an easier price. Thus Philadelphia sold two car lots, about 60,000 pounds, here at 9 1/2c., and Cleveland one car as low as 9 1/2c. Our city pressers ask 9 1/2c.; they could not sell over 9 1/2c.; possibly some could be had at 9 1/2c. The course of prices depends upon developments in the pure lard market. Possibly there will not be much activity in the compounds for a while, because buyers of them are largely supplied on trading a little while since. The Western markets

still have practically a pegged price for the stearine of 9 1/2c.

GREASE.—Has less attention this week. Soap buyers are less concerned over offerings of bone and house, some grades of which are hardly maintained in price. The exporters are taking moderate quantities. Ocean freights keep low. "B" white is very close to the price of "A" white. Sales of 75,000 lbs. "A" white at 5 1/2c.; 100,000 lbs. "B" white, 4 1/2c. at 5.20c.; 125,000 lbs. yellow, 4 1/2c.; 192,000 lbs. bone and house, 4 1/2c. at 4 1/2c.

GREASE STEARINE.—Very little business. Shippers are taking limited quantities. The cost is well maintained, because of the rather firm grease markets. White quoted 5 1/2c.; yellow, 5c.

CORN OIL.—Does not vary much. Trading is slack; moreover, not much improvement is counted upon in the way of business until the foreign markets use up the supplies coming to them on contracts. The feeling over prices is somewhat of a nominal order. Car lots quoted at about 5.75c. and job lots to 6c.

LARD OIL.—Has come down a little in price this week, because of the yielding lard market. It is offered at 67c.

EXPORTS SHOWN BY STEAMERS

Following were the exports from New York to Europe for the week ending July 13, 1901, of commodities as shown by Lunham & Moore's statement:

Servia, Liverpool	500	100	...	100	...	...	...	4	3,750
Nomadic, Liverpool	2,348	283	1,112	...	...	...	...	...	510
Cymric, Liverpool	3,011	1,399	1,536	6,528	...	...	...	...	6,615
Tampican, Liverpool	...	2,000	2,214	...	...	...	...	...	900
Campania, Liverpool	...	2,790	351	...	...	...	...	...	1,635
St. Paul, Southampton	...	547	1,984	...	...	...	...	100	860
Minneapolis, London	600	150	133	2,770	...	15	...	...	9,425
Wells City, Bristol	1,500	...	252	...	...	...	...	...	...
Toronto, Hull	400	622	1,227	...	...	...	40	1,224	6,069
Hogarth, Manchester	...	...	...	...	...	...	...	100	5,130
Laurentian, Glasgow	...	946	100	...	...	...	...	...	...
Anchoria, Glasgow	...	175	637	...	287	50	170	275	...
Pretoria, Hamburg	...	...	...	18	...	75	...	585	810
Belgravia, Hamburg	...	...	...	...	...	140	...	...	55
Statendam, Rotterdam	4,498	...	153	...	...	...	...	395	2,580
Barbarossa, Bremen	...	...	...	...	35	652	...	...	3,900
Koenigin Luise, Bremen	...	...	...	...	...	100	...	...	6,485
Zeeland, Antwerp	5,876	...	587	...	...	105	...	140	1,500
St. Hugo, Antwerp	3,750	...	225	...	...	25	...	150	650
Arandearg, Havre	3,172	...	...	...	...	...	...	...	...
Georgia, Marseilles	250	...	75	...	...	...	...	...	202
Georgia, Genoa	...	...	...	...	...	...	...	...	50
Hekla, Baltic	...	...	...	...	...	25	23	585	200
Lady Armstrong, Baltic	...	...	...	...	...	...	...	...	700
Duchessa di Genova, Baltic	...	...	...	...	...	...	...	...	200
Aller, Baltic	...	85	...	...	...	...	25	...	100
Wyner, South Africa	...	20	20	...	...	20	...	...	504
Total	25,405	9,432	10,791	9,311	422	1,207	63	3,662	53,125
Last week	15,509	6,359	10,831	109	461	505	143	4,331	21,415
Same time in 1900	9,120	11,217	12,899	698	725	968	509	5,892	37,649

Last year's, 350 hhds. tallow, Nomadic to Liverpool, 150 hhds. tallow. Cheese receipts from May 1, 1901, to July 12, 1901, 369,717 boxes. Cheese receipts, same period last year, 410,357 boxes. Total and actual shipments, May 1, 1901, to July 6, 1901, 114,398 boxes. Total of actual shipments, same time last year, 220,046 boxes.

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COTTONSEED OIL

THE NATIONAL PROVISIONER is an official organ of the Interstate Cottonseed Crushers' Association, and the official organ of the Oil Mills' Superintendents' Association of the United States.

Quotations by the gallon, in barrels, in New York, except for crude in bulk, tank, cars, which are the prices at the mills.

Weekly Review

Firm Conditions, Especially for Bleaching Grades—Trading Slack in Large Lots—Home Consumption Steadily Up, General From Held Stocks

There has been nothing in the character of trading this week to imply that buyers are ready to dismiss the conservative temper they had held for some time. Notwithstanding the sales on the open market have been of limited quantities and hardly of enough importance to figure upon an exact line of prices, the fact remains that nowhere can be found especial effort to sell, while confidence is retained by sellers all around over prices. There has been within a fortnight more oil delivered on contracts, but when this has been said, the movements have not been important outside of a sale of new crop delivery. Such quantities of oil as come out on the contract deliveries go chiefly to the leading company. At the same time it is not adding to stocks, as it is safe to say that the consumption of supplies thence is much beyond any possible additions from deliveries on maturing contracts; therefore, that the accumulations of the holders are steadily diminishing. We do not regard the business in the compounds this week as at all lively; perhaps it is likely to be of a conservative order for a few days for the following reasons: The buying of the goods was done only latterly and for deliveries ahead; the distributors of the compounds, therefore, are getting liberal supplies from their contracts, and as much,

if not more, than they care to take at present; moreover, the situation of the pure lard market for a few days has not invited confidence among distributors of the compounds; then, again, by reason of the comparatively high prices of bleaching grades of cotton oil and the cost of oleo stearine, the makers of the compounds have been compelled to advance their prices to 7@7½c. But the amount of the compounds that have been sold ahead keeps up an active consumption of the oil. Our belief is that after a temporary lull that the trade in compounds will come up to marked activity; it is based upon the sentiment of the country turning more to cheaper priced commodities, and by reason of less satisfactory general trade conditions, and as well from the fact that with buyers once arranged on a certain class of goods, they hold to them from natural reasons, in getting used to them and calling for the "same as before." The strikes over the country bear out the thought of a possibility of modified earnings of consumers, and the disturbed general business conditions, over which food products are the first to take alarm, and which worked particularly against the general provision market this week. The possible consumption of cotton oil for home purposes will have more to do with its market prices through to the new crop than any other feature. We mean by this that the prospects of general export demands are not at all encouraging. Except as some demand is likely soon to prevail from England and possibly Marseilles, there are no signs that other foreign markets are likely to be interested in the near future. Indeed, most of the Continental markets may hold off buying until they can make contracts on the new crop, tiding along as they would have to on less than their usual stocks through the intervening period. It must be considered that general trade conditions in Europe are not at all brisk, and that prices of most commodities in this country are considered by it high. Indeed, it is highly improbable that Europe would take cotton oil beyond actual needs

In any event. Because of the trade conditions in Europe, however, it, as well as buyers here, shows increasing disposition to take cheaper goods as against pure lard, and there is no question but that the consumption of oil there for the make of the latter is well up to the average volume; this tends to a little feeling here and there in the trade that perhaps more of a business in the cotton oil may come about with the other side than seems at present probable from its attitude over our prices. It is true that in sections of Europe where the linseed oil is used for the make of soap that the prices of cotton oil, even upon their current basis, ought to be attractive for consumption there, and it is equally certain that linseed oil is apt to retain a high value because of its statistical and other conditions. If there should be any interference with the present large home consumption of the cotton oil, an export demand of more consequence than seems at present likely would be necessary to hold strong prices for the product. Undoubtedly the current cost of cotton oil is reasonable to the compound makers, even though they pay comparatively full rates for bleaching grades of it as against the ordinary prime qualities, as they are able to offer the compounds at an attractive buying price as compared with pure lard.

We do not look for a permanent advance in pure lard for the near future unless the labor troubles are to disappear; but the later future of the lard market we regard as encouraging, although, possibly, decided buoyancy may not appear in it until the fall months. Under any contingency of demands for pure lard, it is clear that the stocks of it cannot gain in a large way until the season is well advanced, and that statistical conditions cannot bear against it, while it looks as though a diminished corn crop and the high prices for the grain would exert a favorable effect upon hog products later on in the season. The probabilities of the provision market will have a good deal to do with the future of cotton oil prices, as well as with all other competing food and soap materials.

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LOUISVILLE, KY.

The tallow markets of the country have been very well maintained this week. There is little accumulation of the beef fat in any direction, because more than the usual supplies are steadily going to the compound makers; it is hard to see how tallow can be materially easier, as it is essentially upon an export basis, while if the lard market should turn out to expectations there is no reason why it should not be materially higher by the time cool weather is reached.

To sum up the entire position, we regard the near future as not offering much hope of more than irregular prices, but believe that in a little later period a healthier situation will come about for food products generally.

There has been nothing done in New York this week beyond sales of 3,000 bbls good off yellow, November delivery, at 33c.; 100 bbls. do, on spot at 36½c.; 1,000 bbls. prime yellow for July delivery at 38c.; that price is further bid, and 38½c. asked, while if a nice lot of bleaching grade is required, a higher price would be asked; for August delivery 38½c. is bid and 39c. asked. There have been about 300 bbls. winter yellow sold at 42@44c. White oil is very scarce, and is nominally about 43c. About 300 bbls. good off yellow were sold on private terms, and 100 bbls. do. at 36½c., now quoted at 36½c. New Orleans made a small sale latterly of prime yellow for export at 37½c. One or two tanks of off grade crude sold at the mills at 26c.

Some of the shippers are still trying to get the mills to talk sales of new oil; it is clear, however, that most of the mills want something more definite concerning the cotton crop before engaging to contract for new oil; there is a long stretch of time ahead before the mills could hope to cover themselves by buying seed against any important deliveries of cotton oil, while the whole view of prices for the fall months depends upon many contingencies. However, the fact that 3,000 bbls. new crop, off yellow, sold for November delivery at 38c. in New York, and that prime yellow for November is held at 34c., shows a pretty good feeling over prices for new crop deliveries. For October delivery prime yellow is held at 36c., and September delivery would probably bring 38c.

Up to this writing this week little that is new transpires concerning the operations of the Virginia-Carolina Chemical Co. in buying new mills. That the company has been over the South extensively endeavoring to pick up mills is clear, and

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that it has been checked in many instances by the high prices demanded for the mill property is a matter of report. Some small mills have been secured outside of those obtained two or three weeks since. It would seem that most mill owners approached are well contented with their property, unless they can get figures offered for it that could hardly be refused.

The cables from Rotterdam are of a very active market for oleo oil at 55 florins, and that the butterine business is lively because of the dry weather in England and the necessities for butterine in place of dairy products; the consumption of cotton oil in Rotterdam, therefore, is larger.

LATER.—The tone is quite firm; a lot of 200 treas. prime yellow on spot sold at 38; that price is further bid, and about 38½ asked; October delivery of prime yellow has 34 bid. Nothing further in new crop deliveries. The Hull (England) market has not changed, quoted 23s. 6d. In London linseed oil is quoted 32s. 6d., an advance of 3d. for the week.

COTTONSEED RATES REDUCED

The rate on all cottonseed products from Memphis to North Atlantic ports, with the exception of cottonseed oil, was reduced 2 1-2 cents, or about 10 per cent., effective July 18. Notice to this effect has just been received by the local freight agents from the Southeastern Mississippi Valley Freight Association.

Some time ago there was a cut of about this amount in the rates from Chicago to the North Atlantic coast on grains used for feed purposes, and this reduction has been ordered so that there may be equally advantageous rates on cottonseed meal and cake, which are active competitors in that territory with feed grains.

COTTONSEED NOTES

The Texas & Indian Territory Cotton & Oil Co., Sherman, Tex., will erect refinery with capacity of 500 barrels per day.

A new oil mill will soon be started at Lavoria, Ga.

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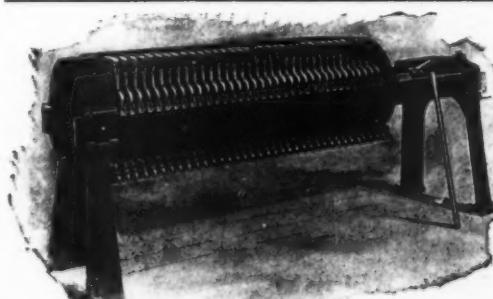
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For Use in Cotton Seed Oil, Linseed Oil, Abattoir, Soap Works, and Every Use where Rapid and Perfect Results are Essential.

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RETAIL DEPARTMENT

TRROUBLES OF AN IRISH-HEBREW

As James Rabinovitski Weston was on his way to Kansas City recently, some practical joker posted his photo on the side of the train with a circular printed in large Hebrew characters underneath it, which stated that the great Hebrew lecturer was on board that train. At each station the Russian and Polish Jews gathered around to welcome him in their own peculiar way. As J. R. W.'s luxuriant whiskers are of a pronounced Hebrew type, the effect was more complete.

James Rabinovitski Weston, talked to his audiences in Yiddish, Hebrew and Lochner Kodisch to such good effect that several of the be-whiskered gentry tried to abduct him to fill the pace of a Rabbi who had died recently; and what with the hand shaking, rubbing of beards that was done, and the Kosher fish he had to eat to uphold his popularity, James Rabinovitski Weston returned to New York the most finished Hebrew-Irish orator that New York has ever seen, and from a robust, hearty, good looking specimen of 250 pounds, he was transformed into a Polish preacher, half starved, and weighing only 160 pounds. Which teaches us that it is better to look at Kosher fish than to eat it. After calling on this clever gentleman for a song, he delivered something strictly original in the shape of "Just because she made those Goo Goo Eyes," danced an Irish jig set to Hebrew rag time music, and sung in the Turkish language as delivered in a mosque in Jerusalem.

BUSINESS CHANGES

David Ervin has discontinued his meat market business at Corning, N. Y. No one at present runs this market.

John Lake, meat and provision man at Brentwood, N. H., has closed his business at that place.

Robert T. Higgins has closed his old provision store at St. Michaels, Md. His new store engages all of his energies and attention.

W. S. Blakeman is now the new owner of the meat market at Watertown, Conn.

Frank Williams has purchased the meat market interest of Fred. Weeks, at Skaneateles, at Syracuse, N. Y.

Lewin Lane, of Red Bank, N. J., has purchased the meat market of F. F. Braillard on Front street, at that place.

F. F. Braillard has closed his meat market on Shrewsbury avenue, Red Bank, N. J.

Charles Greenwalt has bought the Cockrell meat market at White Hall, Ill.

George H. Casper has purchased the H. M. Carpenter meat market at Arcola, Ill.

H. B. Case and Wm. Smith are the new proprietors of the meat market in the upper village at Chester, N. Y.

Fred. P. Whitmarr has bought the meat market of F. G. Colton, at Denmark, Ia.

Patton Bros., poultry business at Gibson, Ill., has been sold to R. A. McClure & Co.

The firm of French & Woodman, Danvers, Mass., has been dissolved, W. A. Woodman continuing.

J. B. Dower, Ballston Spa, N. Y., has made an assignment.

LOCAL AND PERSONAL

Hoboken, N. J., butcher shops will hereafter be open on Sunday from 6 to 10 A. M., and on week days from 6 A. M. to 6 P. M.

George Handel, a butcher, of Newark, O., committed suicide.

Charles Zanely, of Winsted, Conn., has been missing for three weeks.

Creditors of the Derby Beef Co., Hartford, Conn., have filed a petition asking that it be declared bankrupt.

F. C. Koontz, of Hagerstown, Md., has been married to Miss Margaret Rouskulp, of the same place.

F. A. Tucker, Meriden, Conn., died suddenly.

C. Krouse, Glen Gardens, N. J., a butcher, is dead.

Joseph F. Gruber, in the employ of the Gross Brothers Packing Co., Milwaukee, Wis., was run down by a switch engine and killed.

John H. Baldwin, New Haven, Conn., is dead.

The meat market of Miles Donnelly, Peoria, Ill., was burned.

Watertown, Mass., found 500 cattle, 10,000 hogs and sundry other animals on the local market last week.

Barber's meat market at Sixth and Kerlin streets, Chester, Pa., found the city digging under it for "Inlet Improvements."

J. D. Haley, the bone grinding man of Ansonia, Conn., has decided to build a factory on the outskirts of the place, for the better condition of the bones.

The Derby Beef Co. at New Haven, Conn., has been temporarily closed. There are legal complications.

Ignatz Rosenberg fell into a caldron of boiling blood at the slaughter house of Alex. Maybaum. Now he sues for \$10,000.

Daniel J. Donovan, manager of the Armour branch of Meriden, Conn., has been promoted to the management of the branch at New Haven.

Peter M. Taylor is the assistant manager of the Armour branch at Meriden, Conn.

Clinton Judson and Lorenzo Wheeler have bought out the calf business of W. S. Blakeman at Watertown, Conn. They are enterprising men.

New Shops

George Chapin, of Hampden, Mass., has just opened a meat market at Munson, of that state.

B. H. Northcott, last week opened a meat market in Hesston, Kan.

Wm. Smith and Herbert Case are about to open a meat market in East Chester, N. Y.

Charles Ridinger, the marketman at Port Huron, Conn., is building new premises.

Theodore Seymour is building his new meat market at Royal Oak, Md.

John Tucker will open a meat market at the corner of Gay and Walnut streets, West Chester, Pa.

Wm. McLaughlin has re-opened his meat market at Watertown, N. Y.

Weigh Your Ice

"Steel King" Ice Balance

The Best in the World

MADE IN THREE SIZES.

No. 200 weighs 200 lbs., by 2 pounds
No. 300 weighs 300 lbs., by 5 pounds
No. 400 weighs 400 lbs., by 5 pounds

The new "Steel King" Ice Balance contains all the good points of other makes and, in addition, comes nearer meeting the requirements of the "Ice Trade" than any other scale on the market.

It is made entirely of steel throughout.

Absolutely no castings to break.

No screws to shake loose.

The dial is much longer than other makes and is very distinct; it is nickel plated, with large black figures.

Every scale is constructed with a "limiter," so that the spring cannot be strained beyond its capacity.

It can be quickly adjusted, if necessary, by removing the cap on top and turning screw slightly.

Weight boxed, 4½ pounds.

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353, 356, 357, 358 St. John's Market

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POULTRY SALESMAN, ALSO COMMISSION AGENT
FOR ALL KINDS OF POULTRY AND GAME

Having the largest connection with the principal buyers of Poultry throughout the United Kingdom, I am in a position to handle these goods to the best possible advantage, and to the greatest benefit of consignors.

CORRESPONDENCE INVITED

Any information readily given as to packing weights and qualities most suitable for the English market.

CONSIGNMENTS SOLICITED

A. LESTER HEYER,

CURER, SMOKER
AND PACKER

High Grade Hog and Beef Products, Mild Cured Ox Tongues. Breakfast Bacon, Hams, etc.

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318 and 320 EAST 39th STREET, NEW YORK CITY.

No Connection With Any Other House

MORTGAGES, BILLS of SALE AND BUSINESS RECORD

Butcher, Fish and Oyster Fixtures The following Chattel Mortgages and Bills of Sale have been Recorded

BOROUGH OF MANHATTAN.

Mortgages.

Klein, B., 237 W. 27th, to H. Brand, (R.)	\$500
Lantzman, Y., 166 Orchard, to S. Portz	85
Rubin, R., 1789 1st ave., to Dumrauf Wicke	350
Russell, P. S., 713 Washington, to G. Purdy	120
Taxler, M. & S., 176 Orchard, to H. Rubin	

BOROUGH OF BROOKLYN.

Mortgages.

Reitter, G., 205 Nassau ave., to F. C. Lutz	\$250
Schaefers, W., Wallabout Market, to O. Henning	200

Bills of Sale.

Stern, A., 3918 Ft. Hamilton ave., to J. Vanderheide	Nom.
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Grocer, Delicatessen, Hotel and Restaurant Fixtures

The following Chattel Mortgages and Bills of Sale have been Recorded

BOROUGH OF MANHATTAN.

Mortgages.

Allen, C. H., 174th st. and Washington ave., to R. Y. Thayer	\$725
Dieckmann, A., 1288 Columbus ave., to J. J. Schultheis	1,800
Gollwyne, I., 605-611 Kingsbridge Road, to M. A. Kennedy	300
Haltermann, J. F., 614 3d ave., to Kornner Schwabeland Co.	528
Meyer, Wm., 1758 2d ave., to R. Cohen	76
Richer, H., 126th st. and Lexington ave., to J. Kantrovitz	400
Taub & Greenberg, 1158 3d ave., to S. Rosenberg	250
Froelich, A., 171 E. 86th, to L. H. Steinhart	2,100
Handel, Julius, 5 Catharine, to S. Rabinowitz	
Skinner, M. H., 127 and 129 4th ave., to F. M. Doodlittle	1,250
Zucker & Goodman, 218 E. Broadway, to A. Brodetsky	300

Bills of Sale.

Monaco, J. D., 38 Washington, to F. Monaco	500
Turco, L., 332 E. 63d, to A. De Libera	200

BOROUGH OF BROOKLYN.

Mortgages.

Gunn, F., 223 Bond, to P. A. Gaynor	\$176
Nerhaus, F., 235 Keap, to S. F. & J. F. Mohring	350
Richardson, A., 20 Smith, to J. F. Heinlockel	2,000
Wadler, R., 114 Sands, to E. Cohen	150
Fey, E., Coney Id. Beach, to W. Lehman	400
Kaiser, M. A., 29 Myrtle, to E. R. Biebler	100
Komblan, J., 375 Bushwick ave., to M. Zimmermann	75

Bills of Sale.

Heitmann, H., 183 Stockton, to L. Heitmann	300
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AMONG THE ASSOCIATIONS

The Retail Butchers' Association of Cincinnati, O., will hold their annual outing at Reichrath's Park on Aug. 8. There will be 150 wagons in the parade. This association is not yet affiliated with the National Association, but has asked permission to send delegates to the National Convention at Tonawanda, N. Y., on Aug. 6, 7, 8.

The Retail Grocers' and Provision Dealers' Association will hold its annual outing at Hampton Beach, Wednesday, Aug. 14. A committee has been appointed to make the necessary plans, and the outing this year will, it is expected, be more successful than any of the two preceding ones. The retailers will invite the wholesalers of this city and Boston, and the officials of the association in Lowell and Lawrence will also be invited to attend. An invitation will also be extended to all the wholesale and retail business men in the city and their clerks who close up Wednesday afternoons, special cars being provided for these at noon. The grocery and provision clerks will enjoy the entire day at the beach, and arrangements will be made whereby special cars can be taken almost every hour during the day for clerks of other stores which close in the afternoon. The usual ball games will be held, and the list of other sports will be extensive.

The Butchers' Clerks Association of Plainfield, N. J., have about succeeded in getting a 7 P. M closing hour of the shops. The butchers decline to close at 6.

The Worcester, Mass., Grocers' and Butchers' Association has decided to go on an excursion to Providence, R. I. There will be a clam bake and a sail to Block Island.

The Tacoma (Wash.) Retail Butchers' Association will picnic in the early part of August. The members will enjoy western sports.

Homer D. Call, international secretary-treasurer of the Amalgamated Butcher Workmen of North America, this morning received an application for a charter from New Orleans. Since the first of the month twelve charters have been issued by Mr. Call to new unions, four of them being in Chicago.

WEBBER'S ANNUAL PICNIC

The Richard Webber Mutual Benefit Society held its seventh annual picnic and games at Sulzer's Harlem River Park and Casino on Wednesday. All of the 375 employees of the big Harlem Packing House, their families, sweethearts and friends, graced the occasion and made it one thoroughly enjoyable and successful.

Richard Webber, the man whose business ability and labors for years made the gathering possible, was present, and the smile of satisfaction resting upon his countenance showed the pleasure afforded him in the assemblage of his great business family. Richard Webber, Jr., a young man who gives every evidence of possessing his father's commercial acumen, and who is president of the society, worked indefatigably for its success.

The afternoon was devoted to athletics and the evening to dancing, both being well arranged and conducted. The results of the contests follow:

100 yards, handicap, for members, won by L. Bohnlofink; H. Wagner, second.

220 yards run, for boys, won by Paddy Smith; J. Sheehan, second.

440 yards run, invitation, won by L. Bohnlofink; J. Callahan, second.

Ladies' bowling contest, won by Miss K. Sullivan; Miss K. McKune, second.

440 yards, novice, won by D. Dennis; H. Wagner, second.

Bowling, for members, won by C. Schune; H. Ebling, Jr., second.

Hog cutting contest, won by R. Webber's team, by best work; King's made better time.

A PROGRESSIVE YOUNG MAN

Morris Buchabaum, of 523 Ninth avenue, one of the youngest butchers in New York, is also one of the most popular. He was the first to start the early closing movement for the benefit of his employees. He closes up his store at 6:30 P. M. regardless of the large supper trade for which his store is noted, besides giving each employee a two weeks' vacation with salary. How many butchers can say the same? Mr. Buchabaum also points with pardonable pride to his artistic stationery, designed by himself. He is certainly a most worthy son of a most worthy parent.



\$1000⁰⁰ IN GOLD

\$1,000.00

IF YOU MAKE YOUR OWN PORK SAUSAGE

in Gold Will Be Paid by Us to Any Person Who Will Prove FREEZE-EM is not the Best Known Preservative for Pork Sausage and Chopped Beef.

and have never used FREEZE-EM in it, write us at once for LARGE FREE SAMPLE BOTTLE.

By the use of FREEZE-EM, Pork Sausage and Hamburger Steak retain their Perfectly Fresh Appearance and they can be exposed on a counter for a Long Time, without being affected by the changes of the weather. Roasts, Loins, and All Cuts of Meat can be kept Fresh and Wholesome in any climate. FREEZE-EM can be used with Surprising and Pleasing Results in the Washing of Poultry and Meats that have become Slightly Tainted. Butchers who have tried FREEZE-EM say that it saves them TEN TIMES ITS COST.

Do not neglect to write us, TO-DAY, for LARGE SAMPLE BOTTLE, with FULL INSTRUCTIONS FOR USE, FREE, ALL CHARGES PREPAID.

B. HELLER & CO., Mfg. Chemists, 249 S. Jefferson St., CHICAGO, U.S.A.
In purchasing FREEZE-EM from jobbers Beware of Fraudulent and Worthless Imitations.

A Conservative Investment



You are in business to make money.
You cannot make money if it is not known
that you are in business.
You must make your business known to the
greatest number of possible patrons.
You must do it with least loss of money and
energy.
You do not want to pay for the same thing
twice.
You can make money by making it known
that you are in business to earnest busi-
ness men, with the least expenditure of
energy and money, by advertising to the
exclusive circle of readers of

THE
National Provisioner

A Trade Necessity That Commands Attention!

HO! FOR BUFFALO!



THURSDAY, AUGUST 8th

IS

BUTCHERS' AND MARKETMEN'S DAY

AT THE

PAN-AMERICAN EXPOSITION



THIS IS YOUR OPPORTUNITY

The Director-General of the Pan-American Exposition has designated Thursday, August 8, as "Butchers' and Marketmen's Day," and he has requested the editor of the National Provisioner to take charge of the details and to arrange the program for the occasion. The Hon. William I. Buchanan, Director-General of the Exposition, after a pleasant correspondence, makes his request in a letter to us, and in it he shows his desire that the day should be a success. His letter of request is as follows:

"Colonel JOHN F. HOBBS,
"Editor The National Provisioner,
"150 Nassau St., New York.

"Dear Sir:

"I beg to state that August 8 is designated as 'Butchers' and Marketmen's Day,' and, if it meets with your approval, will you undertake the preparation of a program and see that special efforts are made to make the day a successful day at the Exposition?

"Very respectfully yours,
"WM. I. BUCHANAN,
"Director-General."

It is particularly appropriate that the date above named should be selected, as the Eastern National Retail Butchers' Mutual Protective Association will hold its annual convention at Tonawanda, a suburb of Buffalo, on August 6, 7 and 8. This will enable all of the delegates to visit the exposition under the most auspicious circumstances.

Though the date named is the last day of the convention, it will in no way interfere with the business to be transacted, as there will be ample time to visit the exposition after adjournment.

PROGRAM TO BE ARRANGED

The day, however, will not be confined in its privileges to the delegates, but is open to all butchers and marketmen from all parts of the country, and every effort will be made for their accommodation and comfort.

The details of the program will be arranged by The National Provisioner, as requested by the Director-General, and no pains will be spared to make it as full as the short time which elapses will permit.

Big Attendance Wanted

This day will be the great opportunity for butchers and marketmen to view the beautiful exposition and have fitting honor paid them. Every one who can do so should make an effort to attend and show what a big thing marketdom is. We hope that the trades will show that they appre-

ciate the recognition shown them by the authorities of this great exposition and attend in large numbers.

Leave the meat block for a few days and enjoy yourself at Buffalo. It is fine there at this time of the year. You can do it at this season better than at any other because the summer business is slack. You will come back knowing more and feeling better.

Niagara Falls

Besides there is the side trip to Niagara Falls, less than an hour's ride from Buffalo on a trolley car. It is worth a trip from the "under side" of the earth. See these things! They give you an idea of the immensity of nature as well as of business possibilities. They take the cob-webs out of your eyes, refresh your brain and

make you a thinking as well as a working-machine. You can never make the trip at a less cost than now and never get so much into it. It is more than worth your while to go to the great Pan-American.

Forget Business

Make up your mind to go for this day, get your business in shape for it, board a train at the proper time, forget about the shop, and tell the conductor you are going to "get off at Buffalo."

Any inquiries to the National Provisioner will be at once answered. Be a committee of one and help us make a big day of it.

In writing us address The National Provisioner's Pan-American Bureau Room 1508, 150 Nassau street.

KANSAS CITY LIVE STOCK REVIEW

The amount of cattle received for the week ending Friday, July 19, was 34,000; previous week, 58,000; same week last year, 29,000.

Scattered showers over drought-stricken territory checked the influx of thin cattle. Prices advanced on all grades each day of the week, making a total advance of from 25 to 75 cents. Top dressed beef steers quoted on Friday at 6.10, the highest July price since 1884. The general range of fat cattle was 4.90 to 5.90; stockers and feeders, 3.00 to 4.50; best heifers, 4.85 extreme; range cows, 2.00 to 4.25.

Southern cattle receipts for the week 6,000, about half as many as last week; advance over close of last week 30 to 50 cents; steers worth 3.00 to 4.50; cows, 2.60 to 3.20.

Hogs for the week, 114,000; last week, 116,000; same week last year, 87,000. Prices declined 15 to 25 cents first three days, but strengthened Thursday and Friday. Pigs 40 to 50 cents lower than a week ago. Heavy hogs 5.70 to 6.00; mixed and medium 5.60 to 5.85; lights, 5.40 to 5.75; pigs 4.25 to 5.30.

Sheep receipts for the week, 13,000; last week, 16,000; same week last year 7,300. Lambs advanced 30 to 40 cents on Monday and Tuesday top lambs sold at 5.50, the highest price for several weeks. The advance was lost later. Sheep remained steady and active all week. Top wethers, 3.75; yearlings, 4.25; ewes, 3.25; stockers, 1.50 to 2.50.

Slaughterers' purchases for the week were:

	Cattle.	Hogs.	Sheep.
Armour	10,000	35,000	2,000
Swift	7,000	25,000	5,700
Schwarzchild	4,500	8,000	3,000
Fowler	100	1,000	550
Cudahy	4,000	15,600	2,000
Ruddy	500	400	500
Omaha Pack. Co.	500		
Small Butchers	300	200	600

Hides quiet, with few on hand. Natives 13 cents for late take off. 2,000 February and March sold at 11 1/4c. Texas heavies are held at 13 1/4c.; lights, 12 1/4c.; extremes, 11c.; butt brands, 12c.; Colorados, 11 1/4c.; branded cows, 10 1/2c.; light native cows, 10 1/2c.; heavy, 11c.

ST. JOSEPH LIVE STOCK REVIEW

The receipts during the week ending July 17 were as follows: 31,341 cattle, 50,693 hogs and 21,899 sheep, against 21,861 cattle, 33,133 hogs and 7,606 sheep received during the previous week.

CATTLE.—Choice beef steers closed about as high as any time this year, but good ones figure 15c. to 20c. lower than a week ago. Medium classes 25c. to 30c., and plainer kinds 35c. to 40c. were furnished. Butcher cattle held a strong tone, fair grades declining 10c. to 15c., and canners a quarter. Stockers and feeders are very dull and lower than any time this year with quite a number in second hands. Veal calves remained around steady, with the top jumping from \$5.25 to \$5.50, and bulls declined 5c. to 10c., while milk cows were slow at the bottom prices of the year.

HOGS.—The market last week was very irregular and trading slow. The general market was about 5 cents lower, and at no time was trading very brisk.

SHEEP.—The week closed with all mutton stock sold, and values fully \$1.00 per 100 pounds higher than the close of last week on lambs. While sheep were about 75c. higher, stockers have shown no improvement.

Provision Market

The receipts during the week ending July 17 were: Hams, 215,700 lbs; meats, 5,454,100 lbs; lard, 1,326,150 lbs., and 75 bbls. pork.

Lard easier; boxed meat steady and quiet.

PORK.—F. o. b. in a jobbing way at \$15.50 to \$15.75.

LARD.—Choice steam on East Side closed nominally at 8.50c., the best obtainable figure for shipment or export, but manufacturers are holding their real light offerings above that.

TALLOW.—Firm; country selling mainly at 4 1/4c. for current receipts grassy summer make; prime winter worth 5 1/4c. Packers choice held at 5 1/4c.

OLEO-STEARINE.—Held at 9 1/4c.

HIDES.—In scant offering and very firm.

ST. JOSEPH LIVE STOCK REVIEW

South St. Joseph, Mo., July 16, 1901.

While there was a fair number of dry weather cattle included in last week's receipts, yet the number of good, hard beevies was far greater than any week during the existence of the South St. Joseph market. The condition of the surrounding markets were just the reverse, however. Because of the excessive hot weather the consumption of beef was limited, which resulted in local prices taking a tumble generally, good to choice grades losing 25 to 40 cents, and other kinds 50 to 75 cents. Cows and heifers were in fair proportion, and prices receded in sympathy with the decline in fat cattle values, best grades showing a decline of mostly 25c., and other kinds, especially the light, half-fat heifers, losing 35 to 50c. Bulls and stags also declined 15 to 25c., and the veal calf trade broke 50 to 1.00 in price. The discouraging prospects of the corn yield, drying up of pastures and the lack of stock water forced a good many stockers and feeders to market, which had to be sacrificed, the best grades suffering a 15 to 25c. break in values, and other grades 35 to 50, with stock cows and heifers a loser by 50 to 75c. Receipts in the Texas division were liberal, and offerings were practically all steers, that ranged from common canner steers to good heavy double wintered grades. The general market weakened in sympathy with the break in native offerings, and the decline for the week amounted to mostly 25c., with extreme cases 35c.

While offerings of hogs last week were in good excess of the previous week, they fell under the same week a year ago. The number of dry weather offerings were surprisingly small, as the bulk of them were corn hogs that were of medium to heavy weights and of fair to good quality. While prices fluctuated from day to day, the week closed up with prices showing a good advance over the previous week's close. Receipts on Tuesday of this week were by far the largest in the history of the yards, the former banner day being July 10, 1900, when 13,144 arrived, as against 17,500 to-day. The market showed a sharp decline, and the range of prices was from 5.55 to 6.00, with the bulk of sales at 5.60 to 5.80.

Arrivals in the sheep department were quite light last week, and hardly enough arrived to fill the orders of one packer, let alone all the rest. Naturally, sharp competition for supplies ruled, and prices were advanced all around. Spring lambs and native ewes were in the majority, with wethers and shorn lambs making up a small proportion of the receipts. Spring lambs advanced 50 to 1.00 for the week, and mutton grades sold 50 to 50c. to the better. Common, callish stuff, however, was hard to move at a low range of prices.

JUDGING EXPOSITION EXHIBITS

The judging of exhibits in the butter and cheese departments of the dairy division at the Pan-American Exposition, were concluded after two days' hard work. The superintendent of dairy exhibits, Walter H. Hall, who has personally seen to it that the judges have had every facility for the rushing of the work, complimented them on the rapid manner in which they have done their work. In the two days that the judging has covered nearly 600 exhibits have been judged. To be exact, there are exhibits made by 575 exhibitors. The South, the Far West, the Pacific Coast, the New England section, the East and the Extreme North are all represented. Cheese and butter was adjudged from the following states: New York, Connecticut, New Hampshire, Massachusetts, Pennsylvania, Ohio, Minnesota, Wisconsin, Illinois, Indiana, North Dakota, South Dakota, California and Canada.

The judges on butter were: C. A. White, of Wisconsin; S. B. Richardson, of New York, and E. A. Bird, of Montreal, Quebec. The judges on cheese were: A. H. Barber, of Chicago; W. I. White, of Boston, and H. A. Niven, of Montreal.

The judges were unanimous in saying that the exhibits of both butter and cheese were exceptionally fine.

PORK PACKING

Special reports show the number of hogs packed since March 1 at undermentioned places compared with last year, as follows:

	March 1 to July 10, 1901.	1900.
Chicago	2,265,000	2,360,000
Kansas City	1,330,000	1,065,000
Omaha	855,000	850,000
St. Louis	650,000	580,000
St. Joseph, Mo.	634,500	633,000
Indianapolis	416,000	402,000
Wilwaukee, Wis.	107,000	112,000
Cudahy, Wis.	150,000	196,000
Cincinnati	190,000	216,000
Ottumwa, Iowa	203,000	214,000
Cedar Rapids, Iowa	166,600	165,000
Sioux City, Iowa	271,000	295,000
St. Paul, Minn.	192,000	180,000
Louisville, Ky.	115,000	123,000
Cleveland, Ohio	144,000	175,000
Wichita, Kan.	104,000	60,000
Nebraska City, Neb.	95,000	115,000
Detroit, Mich.	95,000	90,000
Bloomington, Ill.	38,200	37,000
Above and all other	8,375,000	8,210,000

—Price Current.

DOLD'S WICHITA PLANT BURNED

Fire on Tuesday destroyed the packing plant of Jacob Dold & Sons in Wichita, Kans. Four large buildings were burned, together with about seven million pounds of meat in process of preparation. The loss is estimated at \$1,000,000; insurance, about \$400,000. Four men were severely hurt by a falling wall. Employees numbering 350 are thrown out of work, but it is said the plant will be rebuilt at once. Spontaneous combustion is supposed to have started the fire, which originated in the lard house. Although every effort was made to check the flames they continued to spread, and after four hours the entire plant was in ruins.

CHICAGO MARKET REVIEW

WESTERN OFFICE OF
THE NATIONAL PROVISIONER,
ROOM 424 RIALTO BUILDING.

Live Stock

Receipts.

	Cattle	Calves	Hogs	Sheep
Thursday, July 11	9,686	772	16,131	10,456
Friday, July 12	2,032	179	12,255	6,283
Saturday, July 13	545	290	14,141	1,785
Monday, July 15	20,727	954	43,845	27,968
Tuesday, July 16	4,181	2,057	20,625	5,982
Wednesday, July 17	16,000	700	35,000	23,000

Shipments.

	Cattle	Calves	Hogs	Sheep
Thursday, July 11	3,811	55	3,780	601
Friday, July 12	3,150	125	2,059	641
Saturday, July 13	880	308	2,905	641
Monday, July 15	6,579	54	8,747	522
Tuesday, July 16	3,727	66	3,179	522
Wednesday, July 17	4,000	40	7,000	1,500

Range of Cattle Values

Prime beefers, 1,000 to 1,600 lbs.	\$5.90 @ \$6.20
Good to choice b'vs, 1,200 to 1,600 lbs.	5.35 @ 5.85
Fair to medium shipping ex. steers	4.90 @ 5.50
Plain to common beef steers	4.30 @ 4.85
Common to rough, 1,000 to 1,200 lbs.	3.60 @ 4.25
Good to f'cy feeders 800 to 1,200 lbs.	3.70 @ 4.40
Plain to fair light stockers	2.10 @ 3.60
Bulls, poor to fancy	2.25 @ 4.50
Good fat cows and heifers	3.10 @ 5.00
Good to fair fat cows	2.50 @ 3.00
Common to good canning cows	2.25 @ 2.75
Veal calves, fair to fancy	6.00 @ 6.75
Stock calves, common to fancy	2.00 @ 4.50
Fed Western steers	4.50 @ 6.00
Fed Texas steers	3.85 @ 5.25
Texas cows, bulls and plain steers	2.50 @ 3.75

Range of Hog Values

Choice to ex. strong-wt. shipping	\$5.95 @ \$6.00
Rough to good heavy packing	5.70 @ 5.85
Selected butcher weights	5.90 @ 6.00
Plain to choice heavy ml ed	5.70 @ 5.975
Assorted light, 150 to 180 lbs.	5.75 @ 5.925
Common to fancy light ml ed	5.65 @ 5.875
Thin to choice 80 to 110 lbs. pigs	4.20 @ 5.40
Culls, stags and throwouts	3.00 @ 5.00

Range of Sheep Values

Export muttons	\$4.15 @ \$4.50
Good to prime wethers	3.80 @ 4.10
Medium to choice mixed natives	3.70 @ 4.20
Good to prime Western muttons	4.00 @ 4.25
Fair to choice fat ewes	3.40 @ 3.75
Plain ewes, coarse lots and feeders	2.85 @ 3.30
Plain to choice yearling feeders	3.25 @ 3.75
Good to fancy yearlings	4.30 @ 4.60
Poor to fair clipped lambs	3.20 @ 4.25
Spring lambs, good to choice	4.50 @ 5.00

Packer's Purchases Last Week

	HOGS.
Armour & Co.	24,000
Anglo-American	9,100
Boyd-Lunham & Co.	4,400
Continental Packing Co.	2,500
T. J. Linton & Co.	1,400
G. H. Hammond & Co.	4,000
Nelson Morris & Co.	6,600
Swift and Company	11,100
Omaha Packing Co.	6,500
City butchers	4,400
Total.	79,000

Live Stock Notes

Last week eleven markets received 434,000 hogs, or 68,000 more than the previous week, and 56,000 less than the corresponding week a year ago. Thus far this year receipts at the eleven markets, total 13,257,000, the largest on record, 396,000 larger than a year ago, and 240,000 larger than two years ago.

When the last stock train pulled into the "chutes" on the Northwestern line at the Stock Yards Tuesday morning, all records except one in the history of the yards had been broken, and the bulletin board at the main gate showed that 2,214 cars of live stock had been delivered in the yards, making 38,000 hogs, 29,000 cattle, and 25,000 sheep, a total of 92,000 head. The one day on which this record was broken was on July 30, 1894, when 2,364 loads of stock were received.

The London Mail says of American beef: "It is bought by the best butchers in London and throughout the country, but rarely sold openly and frankly and honestly for what it is. It is as good as and usual-

ly in better condition for the table than prime English or Scotch." That is the truth, and the consumers are bound to find it out some day. Then prime American will be called for and furnished under its own name.

The latest plan for putting an end to the practice of overcrowding the capacity of the public range is known as the "license" plan. The idea has many adherents. The scheme is to have the government take charge of the range, determine the grazing capacity of each range and charge a small license fee per head for the privilege of grazing thereon; to limit the number that can be placed upon any one range to the capacity of that range; actual settlers to have the first right, and if they take the full capacity then outsiders to be barred out. It is claimed that a fee of 1 per cent. per head on cattle and horses would pay the expenses of the government supervision, and that the stock men would not object to this amount. The fee for sheep is proposed at a quarter of a cent. It is believed that by this plan the government would be able to protect the range from destruction.

General Live Stock Situation

(Special Letter to The National Provisioner from the Mallory Commission Co.)

HOGS.—The continued drought in sections of the country tributary to Kansas City caused a considerable increase in the receipts of hogs at nearly all of the markets. The bulk of the increase in receipts in the western markets were pigs and common hogs that were sacrificed because of the shortage of feed and water, or, more particularly, the fear that such a shortage would occur. From other districts people feared the increase in receipts would cause a considerable decline and liquidated on that account. All these conditions were favorable to a declining market, and prices show a reduction of from 20 to 30 cents compared with the high time last week. The provision market also declined in sympathy with the decline in hogs, and partially owing to the fear of aggravated strike conditions among the iron mills. This last feature we do not take much stock in, as we do not believe a strike of large proportions will last a great while, and, even if it should, the laboring men are going to eat for a while at least. It would be a good thing if the country at large could overcome some of their sense of fear in reference to so-called real or imaginary disasters. From latest advices we believe we have seen the worst of the drought conditions, and see no reason why the season should not be normal during the balance of the year. This country is altogether too large and too productive to admit of anything like a serious famine. While speculators will continue to use every means possible to reach their desires, we believe the general public will not get excited, but move in the even tenor of their way. Present prices for hogs are comparatively high, but we see no good reason why we should not have good prices throughout the season. The stocks of provisions are only fair compared with former years, and with high-priced corn the tendency will be to market hogs before they are matured. The bulk of the hogs toward the close of this week are selling from 5.75 to 6.00, with fair prospects for the near future.

CATTLE.—The receipts of cattle continue large in numbers, but the quality is only fair, a very large percentage of the receipts being cattle from drouth sections, although a good many cattle have been shipped because of fear that feed and water might become short in other sections. All grades of cattle suffered a further decline, stockers and feeders and common to fair cattle generally are selling fully \$1 per 100 lower than two or

three weeks ago. All kinds of fat cattle are selling from 25 to 75 cents lower. Strictly choice cattle are none too plentiful, and we think the prospect favorable for at least average prices on this class of cattle in the near future. The market closes with a better feeling, and with anything like general rains throughout the corn belt we look for lighter receipts and better prices in the near future.

SHEEP.—The sharp advance in the market for sheep and lambs last week had the usual effect of increasing supplies, the bulk of the increase this week being native stock. Prices for lambs have declined fully \$1 per 100 from the high time, and sheep are from 25 to 50 cents lower. Range sheep were not very plentiful, and with a good demand prices averaged fairly steady at 3.75 to 4.00 for sheep and yearlings, and 5.25 to 5.75 for fat lambs. We look for more liberal receipts in the near future, but think good fat stuff will sell at average prices, and still consider mutton and lamb the cheapest meat offered to the trade.

Provision Letter

(Special Letter to The National Provisioner from A. C. Lazerus & Co.)

Chicago, July 17.

We quote to-day's market as follows:

GREEN HAMS.—10 to 12 lbs. average, 10% to 10%e; 12 to 14 lbs. average, 10%e to 10%e; 14 to 16 lbs. average, 10c.; 18 to 20 lbs. average, 10c.

GREEN CLEAR BELLIES.—8 to 10 lbs. average, 11c.; 9 to 11 lbs. average, 10%e; 10 to 12 lbs. average, 10c.

GREEN PICNICS.—5 to 6 lbs. average, 7%e; 6 to 8 lbs. average, 7%e; 8 to 10 lbs. average, 7% to 7%e.

GREEN NEW YORK SHOULDER.—10 to 12 lbs. average, 7%e; 12 to 14 lbs. average, 7%e.

GREEN SKINNED HAMS.—18 to 20 lbs. average, 11c.

NO. 1 S. P. HAMS.—10 to 12 lbs. average, 10% to 10%e; 12 to 14 lbs. average, 10% to 10%e; 14 to 16 lbs. average, 10%e; 16 to 18 lbs. average, 10%e; 18 to 20 lbs. average, 10%e.

NO. 1 S. P. SKINNED HAMS.—18 to 20 lbs. average, 11% to 11%e; 22 to 24 lbs. average, 9%e; 24 to 26 lbs. average, 9%e.

NO. 2 SKINNED HAMS.—10 to 12 lbs. average, 10%e; 12 to 14 lbs. average, 9%e; 14 to 16 lbs. average, 9%e; 16 to 18 lbs. average, 9%e.

ESTABLISHED 1866
Market Reports Furnished Telephone "Yards" 995

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LIVE STOCK COMMISSION
Rooms 57 and 58 Exchange Building
Union Stock Yards, CHICAGO

All kinds of live stock bought and sold on commission

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For particulars, write to

LORENZO E. ANDERSON,

Care of Merchantile Trust Company,

ST. LOUIS, MO.

S. P. NEW YORK SHOULDER.—10 to 12 lbs. average, 7½c.; 12 to 14 lbs. average, 7½c.

S. P. CLEAR BELLIES.—8 to 10 lbs. average, 10½c.; 9 to 11 lbs. average, 10c.; 12 to 14 lbs. average, 9¾c.

Prices on S. P. Meats are all loose, f. o. b. Chicago; ¼c. higher packed.

Tallow Situation

(Special Letter to The National Provisioner from George M. Sterne & Son)

Chicago, July 17.

TALLOW.—Labor troubles and the crop situation have interfered considerably with the upward course of this market, as well as with other articles affected by the receipts of live stock, and the demand has materially slackened off, although prices have only been affected by a small fraction.

GREASES.—Owing to the extremely heavy receipts of hogs and the refusal of foreigners to follow our recent advance have materially accumulated, and prices have suffered considerably.

STEARINES.—Oleo has been a little more quiet, with less demand and more disposition to make sales. Prices in the east have declined; prices here have remained steady. The tallow stearine market has suffered considerably along with other fats. Yellow grease stearine has sold in a very quiet way in large quantities at a trifle under market quotations. Light grease stearines are both in light supply and light demand and a shade lower.

Fertilizer Situation

(Special Letter to The National Provisioner from L. A. Howard & Co.)

Chicago, July 17.

The market in ammoniums at Chicago is exceedingly dull, little or no stock being sold, and prices are nominal. We quote as follows: Ground, 17 to 18 per cent. blood, at \$2.07 f. o. b. Chicago; ground, 10 to 15 per cent. tankage, \$1.95 @ 10 f. o. b. Chicago; ground concentrated, 16 to 17 per cent., \$1.90 f. o. b. Chicago; hoof meal, 16 to 17 per cent., \$2.10 per unit f. o. b. Chicago.

HORNS, HOOFs AND BONES

Horns, No. 1, 65 to 70 lbs. average, ton	\$200.00
Horns, No. 2, 40 lbs. average, ton	185.00
Long thigh bones, 90-95 lbs. average, ton	90.00
Hoofs, per ton, black	24.50
Hoofs, per ton, striped	26.00
Hoofs, per ton, white	40.00
Round shin bones, 35 to 40 lbs. average ton	40.00
Round shin bones, 50-52 lbs. average, ton	65.50
Flat shin bones, per ton, 40 lbs. average	42.00

GENERAL MERCHANDISE MARKET

Salesmen now returning from the road for the various local wholesalers in the leading merchandise lines are predicting a record-breaking fall business, except, perhaps, in Kansas and Texas, where the trade has been hurt by the damage to crops. Fall sales are already ahead of those for the corresponding period last year, and it is believed that there will be a further gain in favor of this year as the season arrives.

THE MARKETS

CHICAGO

Chicago Provision Market and Range of Prices

SATURDAY, JULY 13.

Open. High. Low. Close.

PORK (Per barrel)

July	14.50	14.59	14.35	14.25
September	14.45	14.45	14.30	14.30
January				

LARD (Per 100 lbs.)

July	8.70	8.72½	8.70	8.65
September	8.70	8.72½	8.70	8.70
January	8.37½	8.37½	8.35	8.35

RIBS (Boxed 25c. more than loose)

July	8.05	8.07½	8.02½	7.90
September	8.02½	8.07½	8.00	8.05
January	7.57½	7.57½	7.55	7.55

PORK (Per barrel)

July	14.65	14.20	14.65	14.17½
September	14.05	14.25	14.05	14.25
January				

LARD (Per 100 lbs.)

July	8.55	8.62½	8.55	8.60
September	8.60	8.62½	8.57½	8.60
January	8.27½	8.32½	8.27½	8.32½

RIBS (Boxed 25c. more than loose)

July	7.95	8.00	7.95	7.95
September	8.00	8.00	7.95	7.95
January	7.50	7.52½	7.47½	7.52½

PORK (Per barrel)

July	14.00	14.17½	14.00	14.10
September	14.05	14.15	14.05	14.15
January				

LARD (Per 100 lbs.)

July	8.47½	8.50	8.47½	8.50
September	8.50	8.55	8.47½	8.55
January	8.27½	8.30	8.27½	8.27½

RIBS (Boxed 25c. more than loose)

July	7.82½	7.87½	7.82½	7.85
September	7.85	7.87½	7.82½	7.85
January	7.47½	7.50	7.47½	7.47½

PORK (Per barrel)

September	14.07½	14.22½	14.07½	14.20
October	14.00	14.15	14.00	14.15
January	14.25	14.37½	14.25	14.37½

LARD (Per 100 lbs.)

September	8.52½	8.60	8.52½	8.57½
October	8.50	8.60	8.50	8.57½
January	8.27½	8.35	8.27½	8.32½

RIBS (Boxed 25c. more than loose)

September	7.85	7.90	7.82½	7.90
October	7.85	7.90	7.82½	7.90
January	7.47½	7.52½	7.47½	7.52½

PORK (Per barrel)

September	14.25	14.32½	14.22½	14.27½
October	14.25	14.30	14.23	14.25
January				

LARD (Per 100 lbs.)

September	8.62½	8.67½	8.62½	8.67½
October	8.62½	8.65	8.60	8.65
January				

RIBS (Boxed 25c. more than loose)

September	7.90	7.92½	7.87½	7.90
October	7.92½	7.92½	7.90	7.92½
January				

PORK (Per barrel)

September	14.27½	14.30	14.17½	14.30
October	15.15	14.25	14.15	14.25
January				

MARKET REVIEW

The provision market is unfavorably influenced by the strike situation, the consumptive demand always being prompt to feel trouble in labor circles. Hog receipts very heavy. The market seems largely a packers' affair, some having nearby product for sale; others of them taking January.

COOPERAGE

Steady at 82½@87½c. for pork barrels, and \$1.02½@1.05 for lard tierces.

CORNED, BOILED AND ROAST BEEF.

1 lb., 2 doz. to case	Per doz.	\$1.40
2 lb., 1 or 2 doz. to case	Per doz.	2.55
4 lb., 1 doz. to case	Per doz.	5.05
6 lb., 1 doz. to case	Per doz.	8.50
14 lb., ½ doz. to case	Per doz.	19.50

BEST TABLE SOUPS

1 oz. jars, one dozen in box	Per doz.	\$2.25
2 oz. jars, one dozen in box	Per doz.	3.55
4 oz. jars, one dozen in box	Per doz.	6.50
8 oz. jars, half-dozen in box	Per doz.	11.00
16 oz. jars, half-dozen in box	Per doz.	22.00
Two, 5 and 10 lb. tins	Per lb.	\$1.75 per lb.

EXTRACT OF BEEF.

1 oz. jars, one dozen in box	Per doz.	\$2.25
2 oz. bottles, 1 doz. in box	Per doz.	\$3.10
4 oz. bottles, 1 doz. in box	Per doz.	4.20
8 oz. bottles, 1 doz. in box	Per doz.	7.50
16 oz. bottles, ½ doz. in box	Per doz.	12.75
Two, 5 and 10 lb. tins	Per lb.	.90

BARREL BEEF.

Ham sets	Per lb.	12½
Insides	Per lb.	14½
Outsides	Per lb.	13
Knuckles	Per lb.	15
Reg. cloths	Per lb.	11½

SMOKED MEATS, PACKED.

A. C. hams	12-14 lb. a	12½
Skinned hams	16-18 lb. a	13
Shoulders	16 lb. a	9½
Plenies	6-8 lb. a	9½
Breakfast bacon	1 lb. a	15

PACKERS' SUNDRIES

California butts	Per lb.	7 a 7½
Hocks	Per lb.	1 a 1½
Dry salt spare ribs	Per lb.	2½ a 3
Pork Tenderloins	Per lb.	13½ a 13
Pork loins	Per lb.	9 a 9½
Spare ribs	Per lb.	4 a 4½
Trimmings	Per lb.	4½ a 4½
Boston butts	Per lb.	6½ a 7½
Leaf lard	Per lb.	8½ a 9½
Skinned shoulders	Per lb.	7 a 8

BUTTERINE

NEW YORK CITY

LIVE CATTLE

WEEKLY RECEIPTS TO JULY 15.

	Beefs.	Cows.	Calves.	Sheep.	Hogs.
Jersey City	3,516	1,244	41,533	5,129	
Sixtieth St.	4,300	148	6,190	463	302
Fortieth St.					10,378
West Shore Railroad	3,067	60		832	2,842
Lehigh Valley	1,870				
B. & O. Railroad	313			1,941	
Scattering			89	47	
Totals	13,162	206	1,523	44,856	18,645
Totals last week	11,313	261	11,303	41,615	19,938

WEEKLY EXPORTS TO JULY 15.

	Live cattle.	Live sheep.	Qrs. of beef.
Nelson Morris, Ss. Nomadic			4,680
Nelson Morris, Ss. Cymric			3,100
Nelson Morris, Ss. Servia			2,284
Nelson Morris, Ss. Tampican	328		
Nelson Morris, Ss. Campania			1,925
Swift & Co., Ss. Tampican	72		2,436
Swift & Co., Ss. Menominee			
J. Shamborg & Son, Ss. Nomadic	250	1,564	
J. Shamborg & Son, Ss. Cymric	282		
J. Shamborg & Son, Ss. Menominee	210		
J. Shamborg & Son, Ss. Minneapolis	250		
Schwarzchild & Ss. Nomadic	235		
Schwarzchild & Ss. Cymric	282		
Schwarzchild & Ss. Minneapolis	250	1,840	
Schwarzchild & Ss. Menominee	210	2,012	
Schwarzchild & Ss. Ss. St. Paul			1,500
W. A. Sherman, Ss. Toronto	700		
W. W. Brauer & Co., Ss. Tampican	200		
Armour & Co., Ss. Tampican			4,080
Brown, Snell & Co., Ss. Jersey City	124		
Brown, Snell & Co., Ss. Wells City	140		
Miscellaneous, Ss. Trinidad	67	50	
A. E. Outerbridge & Co., S. Fontabelle		70	

Total exports	3,587	1,684	23,957
Total exports last week	2,100	1,502	17,385
Boston exports this week	2,000		3,000
Baltimore exports this week	981	1,000	1,066
Philadelphia exports this week	334		1,065
Portland exports this week	204	484	
Newport News exports this week	600		
Montreal exports this week	2,083	2,604	
To London	4,319	1,051	11,688
To Liverpool	3,609	3,564	23,331
To Glasgow	750	946	
To Hull	200		
To Bristol	619		
To Manchester	296	451	1,300
To Southampton			
To Bermuda and West Indies	67	120	
Totals to all ports	9,829	5,772	36,519
□ Totals to all ports last week	8,807	5,085	35,085

QUOTATIONS FOR BEEVES.

Good to choice native steers	\$5.50	\$5.90
Medium to fair native steers	4.90	5.45
Common and ordinary native steers	4.25	4.85
Oxen and stags	2.50	5.90
Bulls and dry cows	2.25	4.50
Good to choice native steers one year ago	5.00	5.70

LIVE CALVES

Live veal calves, a few selected	100 lb	7.25	...
Live veal calves, prime, lb		7.00	...
Calves, mixed	6.00	6.50	

LIVE HOGS

Hogs, heavy weights (per 100 lbs.)	6.40	6.50
Hogs, medium	6.40	6.50
Hogs, light to medium	6.40	6.50
Pigs	6.50	6.80
Roughs	5.40	5.50

LIVE SHEEP AND LAMBS

Spring lambs, best	6.75	6.75
Spring lambs, medium	6.00	6.25
Spring lambs, culs	5.00	6.00
Export sheep	4.50	4.75
Bucks	3.00	6.00

LIVE POULTRY

Spring chickens, large per lb.	15	
Spring chickens, small to medium	14	
Poults, per lb.	10 1/2	
Roosters, old, per lb.	14	
Turkeys, per lb.	10	
Ducks, Western, per pair	60	75
Geese, average Western, per pair	1.00	1.25
Pigeons, per pair	15	20

DRESSED BEEF

Choice native, heavy	8 1/2	8 1/2
Choice native, light	7 1/2	7 1/2
Common to fair, native	7 1/2	7 1/2
Choice Western, heavy	7 1/2	7 1/2
Choice Western, light	7 1/2	7 1/2
Common to fair, Texan	6 1/2	7 1/2
Good to choice heifers	7 1/2	7 1/2
Common to fair heifers	6 1/2	7 1/2
Choice cows	7	7 1/2
Common to fair cows	5 1/2	6 1/2
Good to choice oxen and stags	7 1/2	7 1/2
Common to fair oxen and stags	6 1/2	7 1/2
Fleshy Bologna bulls	5 1/2	6

DRESSED CALVES

Veals, city dressed, prime	10 1/2	11
Veals, good to choice	9	10
Calves, country dressed, prime	9 1/2	10
Calves, country dressed, fair to good	8 1/2	9
Calves, dressed, common to medium	6	7

DRESSED HOGS

Pigs	6	8 1/2
Hogs, heavy	6	8
Hogs, 100 lbs.	6	8 1/2
Hogs, 100 lbs.	6	9 1/2
Hogs, 140 lbs.	8 1/2	9 1/2

DRESSED SHEEP AND LAMBS

Spring lambs, choice	11	12
Spring lambs, fair to good	9	10
Spring lambs, poor	7	8
Sheep, good	8	9 1/2
Sheep, medium	7 1/2	8

DRESSED POULTRY

Turkeys, hens	7	8 1/2
Turkeys, toms	7	8
Sp. chicks, Phila., lbs. and over to pair, per	10	12
Sp. chicks, Phila., lbs. and over to pair, per	10	12
Spring chicks, Phila., mixed sizes	20	23
Spring chicks, Penn., fair to good	20	22
Spring chicks, western, dry-picked, large	18	20
Spring chicks, western, scalped, large	18	20
Sp. chicks, small, dry picked, or scalped	15	17
Fowls, w/n., dry picked, fancy, small	11	11 1/2
Fowls, w/n., scalped, fancy, small	10	11 1/2
Fowls, w/n., scalped, fancy, small	10	11 1/2
Fowls, w/n., scalped, fancy, small	9	10
Fowls, dry-picked, No. 1	9	10
Fowls, dry-picked, plain	9	10
Fowls, plain	9	10
Ducks, scalped, No. 1	12	12 1/2
Ducks, scalped, No. 1	12	12 1/2
Ducks, fancy	9 1/2	10

FROZEN.

Smoked hams, 10 lbs., average	12 1/2	13
Smoked hams, 12 to 14 lbs., average	12 1/2	13
Smoked hams, heavy	12 1/2	13
California hams, smoked, light	9 1/2	10
California hams, smoked, heavy	9	9 1/2
Smoked bacon, boneless	13	13 1/2
Smoked bacon, rib in	12 1/2	13
Dried beef sets	10	12
Smoked beef tongues, per lb.	16	17
Smoked shoulders	8 1/2	9
Pickled bellies, light	10 1/2	11
Pickled bellies, heavy	10	10 1/2
Fresh pork loins, Western	11	11 1/2
Fresh pork loins, city	11 1/2	12

FISH

Cod, heads off, steak	6	8
Cod, heads on, market	3 1/2	4
Halibut, white	12	15
Halibut, gray	10	12
Bluefish, live	6	10
Eels, skin on	3	4
Eels, skinned	3	4
Lobsters, large	20	
Lobsters, medium	12 1/2	
Mackerel, Spanish, small	6	8
Haddock	3	4
Flounders	4	5
Striped bass, large	15	20
Pan bass	12 1/2	
Porgies	3	4
Native sea bass	5	8
Flukes	4	4
Soft crabs, large	1	1.00
Butterfish	7	8
Bonito	4	6
Live salmon, eastern	17	18
Weakfish	2	4

BUTTER

Creamery extras, per lb.	19 1/2	
Creamery, firsts	18	19
Creamery, seconds	17	17 1/2
Creamery, thirds	15	16
State dairy, tubs, fancy	18	18 1/2
State dairy, tubs, firsts	17	17 1/2
State dairy, tubs, seconds	16	16 1/2
State dairy, tubs, thirds	14	15
Western imitation cream, fancy	16	17
Western imitation cream, firsts	15	16
Western imitation cream, low grades	14	14 1/2
Western factory, fancy	14	14 1/2
Western factory, firsts	14	14 1/2
Western factory, good	14	14 1/2
Western factory, lower grades	13	13 1/2
Renovated butter, fancy	16 1/2	17
Renovated butter, common to choice	13 1/2	16
Packing Stock	13	14

BUTTERINE

F. O. B. New York		
U. S. STAR, 30 lbs and over, in tubs 10c.		
BUTTERNUT, 30 lbs. and over, in tubs 12c.		
All packages less than 30 lbs., 1-2c. per lb. additional.		

CHEESE

State, f. c., small, white, prime	9 1/2	9 1/2
State, f. c., small, colored, prime	9 1/2	9

SAUSAGE CASINGS.

Sheep, imp., wide, per bundle.....	70
Sheep, imp., wide, per kg., 50 bundles.....	\$35.00
Sheep, imp., medium, per bundle.....	50
Sheep, imp., per bundle, medium.....	46
Sheep, imp., per bundle, narrow.....	34
Sheep, imp., Russian Rings.....	12 @ 20
Hog, American, in tcs or bbls., per lb., F.O.B.	38
Hog, American, 1/2 bbls., per lb.	40
Hog, American, hogs, per lb.	40
Beef, rounds, per set, f. o. b. N. Y.	10
Beef, rounds, per set, f. o. b. Chicago.	9
Beef, rounds, per lb.	2 @ 3
Beef, bungs, piece, f. o. b. N. Y.	12
Beef, bungs, per lb.	6
Beef, middles, per set, f. o. b. Chicago.	48
Beef, middles, per set f. o. b. N. Y.	50
Beef, middles, per lb.	8 @ 10
Beef weasands, per 1,000, No. 1's.....	50
Beef weasands, per 1,000, No. 2's.....	3 @ 6
	3 @ 46

SPICES

	Whole.	Ground.
Pepper, Sing., black.....	13 1/2	14 1/2
Pepper, Sing., white.....	20 1/2	21 1/2
Pepper, Penang, white.....	18 1/2	19
Pepper, red, Zanzibar.....	14	18
Pepper, shot.....	15	18
Alspice.....	7	10
Coriander.....	5	7
Mace.....	42	45

SALTPETRE

Crude.....	37 1/2 @ 35
Refined—Granulated.....	41 1/2 @ 45
Crystals.....	41 1/2 @ 45
Powdered.....	41 1/2 @ 5

THE GLUE MARKET

A extra.....	21
1 extra.....	17
1.....	16
1X moulding.....	15
1X.....	14 1/2
1X.....	14
1X.....	13
1X.....	12
1X.....	11
1X.....	10
2.....	9
2.....	8

THE FERTILIZER MARKET

BASIS NEW YORK DELIVERY.

Bone meal, steamed, per ton.	\$18.50	a 19.00
Bone meal, raw, per ton.	23.00	a 23.50
Nitrate of soda, spot.....	1,825	a 1.00
Bone black, spent, per ton.	13.50	a 13.75
Dried blood, New York, 12-13 per cent. ammonia.....	2.25	a 2.35
Dried blood, West, high grade, fine ground.....	2.30	a 2.35
Tankage, 9 and 20 p. c., f. o. b. Chicago.....	10.00	a 19.50
Tankage, 8 and 20 p. c., f. o. b. Chicago.....	15.00	a 16.50
Tankage, 7 and 30 p. c., f. o. b. Chicago.....	14.50	a 15.00
Tankage, 6 and 35 p. c., f. o. b. Chicago.....	13.50	a 14.00
Garbage Tankage, f. o. b., New York.....	7.00	a 7.50
Fish scrap, dried, 11 p. c. ammonia, per ton.....	24.00	a 25.00
Wet, acidulated, 6 p. c. ammonia, per ton.....	13.00	a 13.50
Asotine, per unit, del. N. York.....	2.35	a 2.40
Sulphate ammonia gas, for shipment, per 100 lbs.	2.70	a 2.75
Sulphate ammonia gas, per 100 lbs., spot.....		a 2.75
Sulphate ammonia bone, per 100 lbs.	2.65	a 2.70
South Carolina phosphate rock, ground, per 2,000 lbs., f. o. b. Charleston.....	6.50	a 7.75
South Carolina phosphate rock, undried, f. o. b., Ashley River, per 2,400 lbs.	3.90	a 4.00
The same, dried.....	4.25	a 4.50

POTASHES, ACCORDING TO QUANTITY.

Kainit, shipment, per 2,240 lbs.	8.05	a 9.50
Kainit, ex-store, in bulk.....	9.00	a 10.65
Kieserit, future shipment.....	7.00	a 7.25
Muriate potash, 80 p. c., future shipment.....	1.83	a 1.90
Muriate potash, 80 per cent., ex-store.....	1.88	a 1.95
Double manure unit (48 a 40 per cent. chloride), to arrive, per lb. (basis 48 per cent.).....	1.06	a 1.12
Sulphate potash, to arrive (basis 90 per cent.).....	2.05%	a 2.10%
Sylvinit, 24 a 36 per cent. per unit, S. P.	30	a 40

LARDS

Pure r'f'd for Europe.....	8.95
Pure r'f'd lard for So. Amer.	9.50
Pure r'f'd lard for Brazil, kegs.	9.50
Compounds, domestic.....	7.00 @ 7.12 1/2
Prime city.....	8.20 @ 8.40

HOG MARKET IN LEADING CITIES.

CHICAGO.—Strong; 5.50c. @ 6.07 1/2c.
ST. LOUIS.—Strong; 5.70 @ 6.05.
OMAHA.—Strong; 5.45 @ 5.80.
CLEVELAND.—Steady; 6.00 @ 6.05.
EAST BUFFALO.—Steady; 6.00 @ 6.10.
INDIANAPOLIS.—Steady; 5.75 @ 6.00.
CINCINNATI.—Active; 4.00 @ 5.95.

white, 45s.; American finest colored, 46s. Tallow—Prime city, 25s. 6d.; Australia in London, 27s. Cottonseed oil—Hull refined; spot steady, 23s. 6d. Turpentine—Spirits, 27s. 6d. Rosin—Common dull, 41s. 1 1/2d. Petroleum—Refined steady, 6 1/2d. Linseed oil steady, 34s.

OCEAN FREIGHT

	Liverpool.	Glasgow.	Hamburg.
	Per Ton.	Per Ton.	Per 100 lbs.
Canned meats.....	6/3	15/	16
Oil cake.....	5/1	7/	14
Bacon.....	6/3	15/	16
Lard, tierces.....	6/3	1 1/2	16
Cheese.....	1 1/2	30/	2 M
Butter.....	20/	30/	2 M
Tallow.....	6/3	15/	16
Beef, per tierce.....	1/4	3/	16
Pork, per bbl.	1/	2/	16

Direct port United Kingdom or Continent, large steamers, berth terms, July, 2 1/2 @ 2 1/2. Cork for orders, July, 2 1/2 @ 2 6.

BALTIMORE FERTILIZER MARKET.

(Special Letter to the National Provisioner from T. H. White & Co.)

The ammoniate market has been active the past week, with good demand from the east. The disposition of producers to accept slightly lower prices from their last week's quotations assisted materially in the volume of business transacted.

Crushed tankage, 10 1/2 to 15 per cent., \$22.50 @ \$23.00 per ton f. o. b. Chicago; crushed tankage, 10 and -0 per cent., \$21.00 @ \$21.50 per ton, f. o. b. Chicago; concentrated tankage, \$1.90 @ \$2.00 per unit, f. o. b. Chicago; ground blood, 2.07 1/2c. @ 2.10 per unit, f. o. b. Chicago; hoof meal, \$2.00 per unit, f. o. b. Chicago; crushed tankage, 9 and 20 per cent., \$2.30 @ \$10—\$2.35 @ \$10, c. i. f. Baltimore.

Foreign sulphate of ammonia \$2.70 @ \$2.72 1/2, c. i. f. Baltimore and New York.

OLEO AND NEUTRAL LARD

For two weeks the oleo market was exceedingly quiet and hardly any business reported; but in the present week the market became lively, and large transactions took place of choice oleo oil at 55.

Oleo oil is now higher than neutral lard, which is different from what it has been for many months past, and this is likely to cause good demand for neutral lard.

Cotton oil of the old crop is getting scarce, and supplies barely sufficient to supply the world till new crops will come to market next November.

LIVERPOOL MARKETS

Liverpool, July 19.—Closing.—Beef-Firm; extra India mess 69s. 6d. Pork—Prime mess Western firm, 67s. 6d. Hams—Short cut, 14 to 16 lbs., firm 51s. 9d. Lard steady; American refined in pails, 43s. 3d.; prime Western in tierces, 43s. 6d. Bacon—Cumberland cut, 26 to 30 lbs., steady, 44s. 9d.; short ribs, 16 to 24 lbs., firm, 47s. 9d.; long clear middles light, 28 to 34 lbs., firm, 45s. 6d.; long clear middles heavy, 35 to 40 lbs., firm, 45s.; short clear backs, 16 to 20 lbs., steady, 44s.; clear bellies, 14 to 16 lbs., firm, 51s. 3d. Shoulders—Square, 11 to 13 lbs., firm, 38s. 9d. Butter firm; finest United States, 90s.; good United States, 75s. Cheese firm; American finest

white, 45s.; American finest colored, 46s. Tallow—Prime city, 25s. 6d.; Australia in London, 27s. Cottonseed oil—Hull refined; spot steady, 23s. 6d. Turpentine—Spirits, 27s. 6d. Rosin—Common dull, 41s. 1 1/2d. Petroleum—Refined steady, 6 1/2d. Linseed oil steady, 34s.

Word has just reached this country that the latest of these Polar expeditions, the Baldwin-Ziegler, which is under the leadership of Evelyn B. Baldwin, has practically commenced its long journey. Leader Baldwin left this country about the middle of June bound for Dundee. He recently left Hamburg, Germany, en route for Tromsø, Norway, from which point the entire company sailed on July 16th, per the chartered supply ship, "Frithjof," bound for Vardø, where they will stop for additional purchases. The next stop will be at a small town near Archangel, where Leader Baldwin will complete his complement of dogs and horses. The complete expedition proceeds thence to San Josephsland.

The water route will be followed as long as navigation is possible, but the ice soon stops the progress of the vessels, which are then temporarily abandoned for the sleds over the ice. The ship must remain in her icy prison until the return of the party many months later, and in order to ensure its safety a wind-proof and water-proof house, made of Ruberoid roofing, which is made by the Standard Paint Company, New York, is built all around it. This is necessarily an important part of the plans, and the selection of Ruberoid speaks well for that material.

The party is then drawn over the ice on sleds by dogs. At convenient stations along the route huts, or "shelters," built of Ruberoid, will be erected. These, as their name indicates, offer protection against the elements, and in addition perform a service which no other material has ever afforded satisfactorily—that is, to store the supplies pending the return of the little company to each shelter. With the exception of Ruberoid no material has been found that will stand the severe climate and at the same time be light enough in weight and convenient enough in shape to permit of easy handling and be easy to lay. Ruberoid meets all these exigencies.

ICE MACHINES

FOR SALE

AS the increase in our business has rendered totally inadequate the small power plants which we have had distributed over an area of thirty-five acres, we have partly installed a large plant, which is now in operation and which will be completed by April 1, 1901. The introduction of these large machines, which will represent 2,400 tons of refrigeration in four units, leaves us with a number of small units, of 75 tons capacity, to dispose of. We say this that you may know we are not disposing of these ice machines because they are worn out, but because in putting in our new equipment we have no further use for them.

The machines in question are all of the vertical compression type and single acting except in one instance, namely, that of a 100-ton De La Vergne machine, which has two ammonia compressors 13½ inches in diameter, 30 inches stroke, double acting. The steam engine is an Allis-Corliss make with cylinders 24 inches in diameter and 36 inches stroke. The ammonia compressors of the 75-ton machines are 15¼ inches in diameter, 30 inches stroke; steam cylinders 22 inches in diameter, 36 inches stroke, of the Porter make. There are also some of the 75-ton machines which have Allis and Hamilton steam engines. The floor space required by the machines is 26 ft. x 21 ft., and the height 21 ft.; the distance from top of coping stone to top connection on machine being 15 ft. 6 in. and the additional 5 ft. 6 in. being allowed for removing the ammonia pistons. These machines are all in good condition; they have been well taken care of and we will dispose of them subject to inspection.

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Chicago

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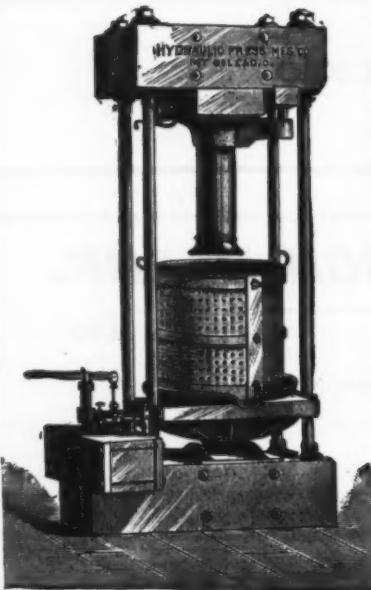
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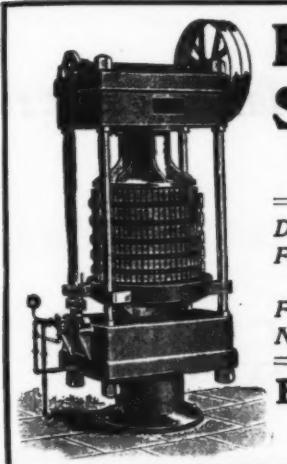
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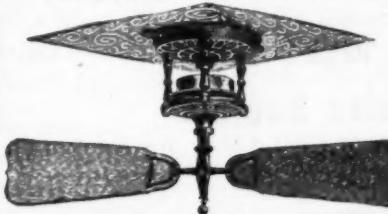
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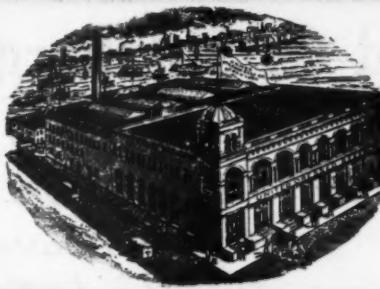
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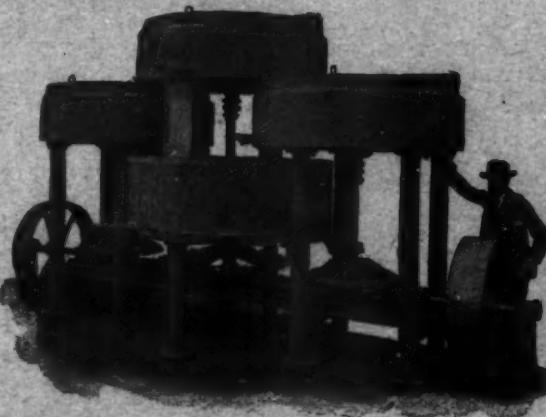
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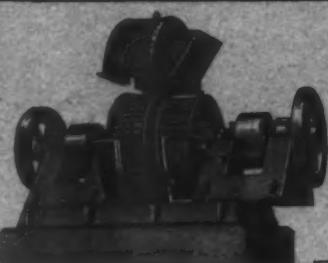
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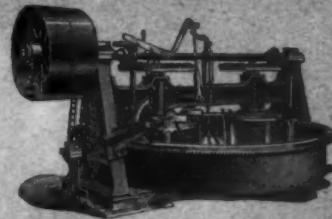
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